Southern California's Computer Magazine

July 16, 1998 • #181

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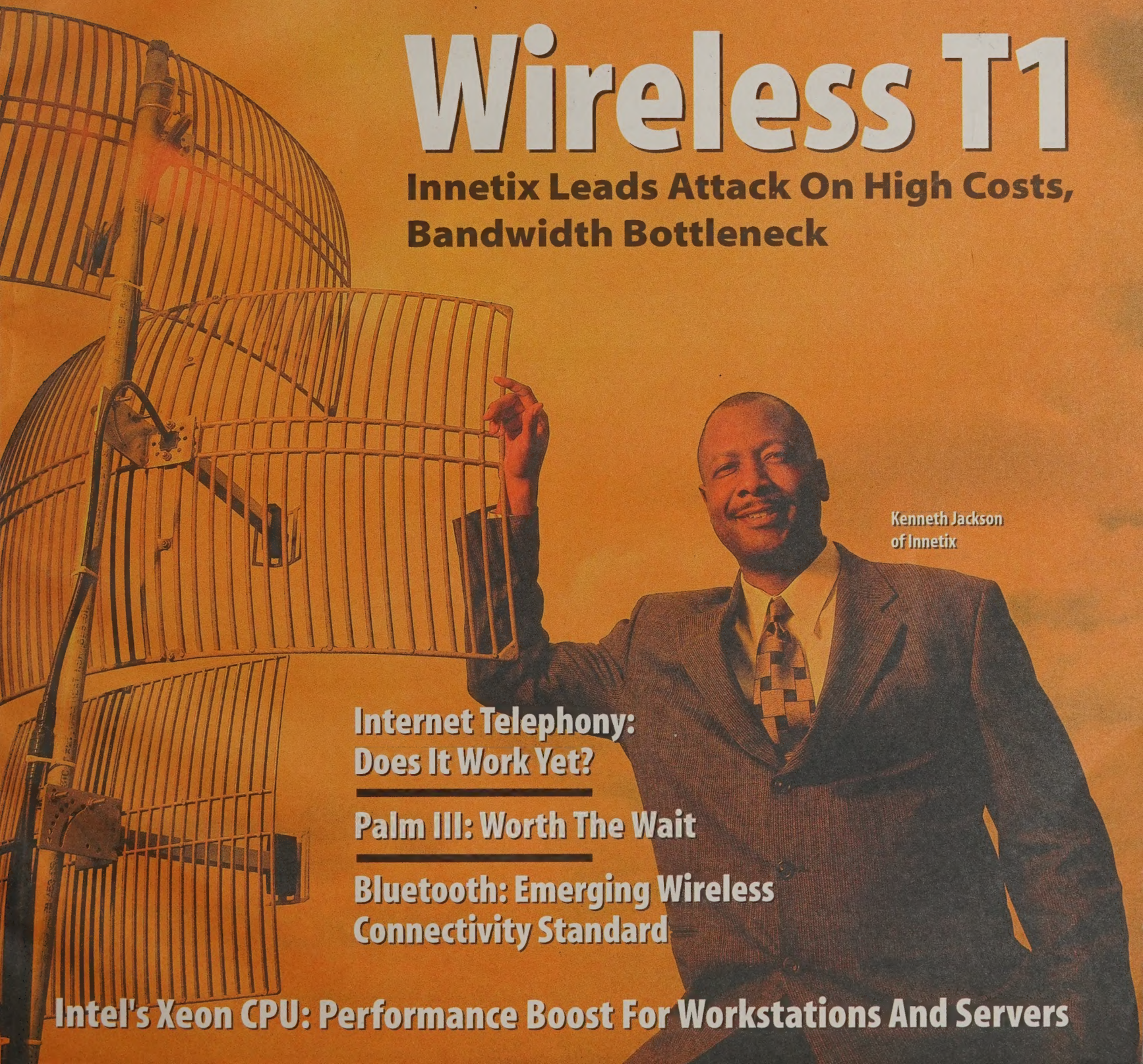

## Wireless T1

### Innetix Leads Attack On High Costs, Bandwidth Bottleneck

Kenneth Jackson of Innetix

## Internet Telephony: Does It Work Yet?

## Palm III: Worth The Wait

## Bluetooth: Emerging Wireless Connectivity Standard

## Intel's Xeon CPU: Performance Boost For Workstations And Servers

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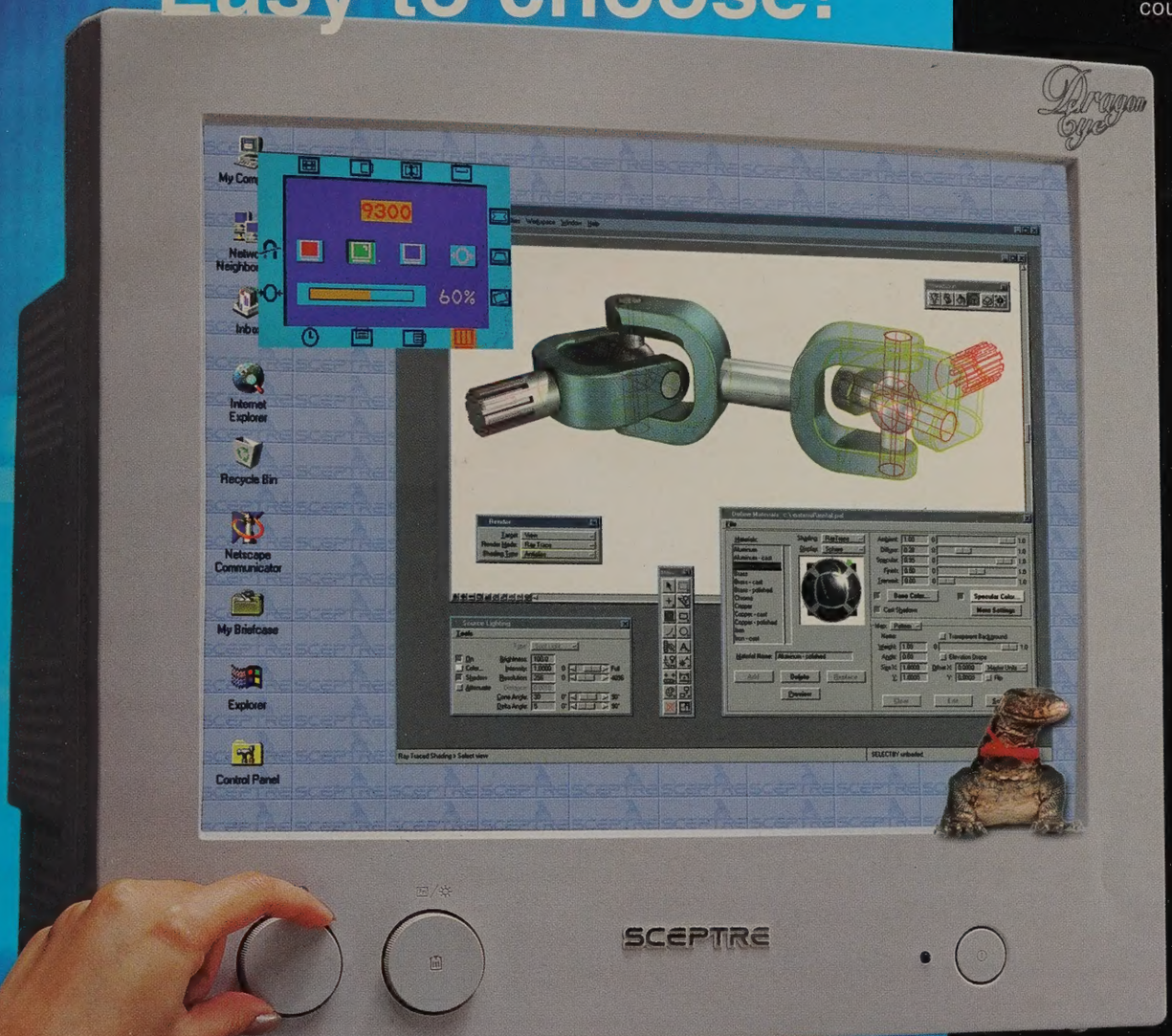


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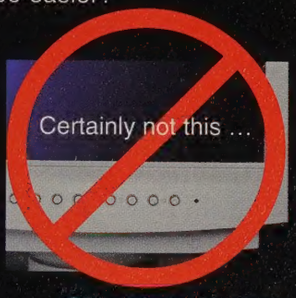
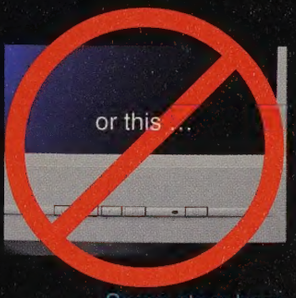
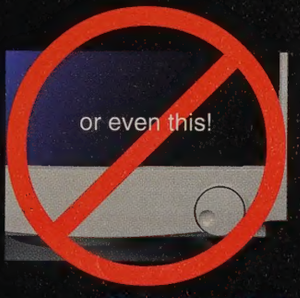



Old-style technology
Too many buttons
Not user friendly




Same story here
as above




Overly simplified
More difficult to use
More prone to error

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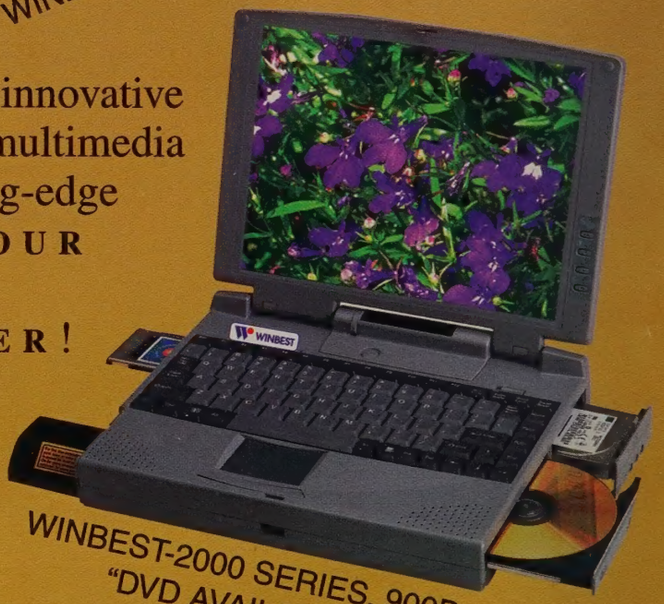


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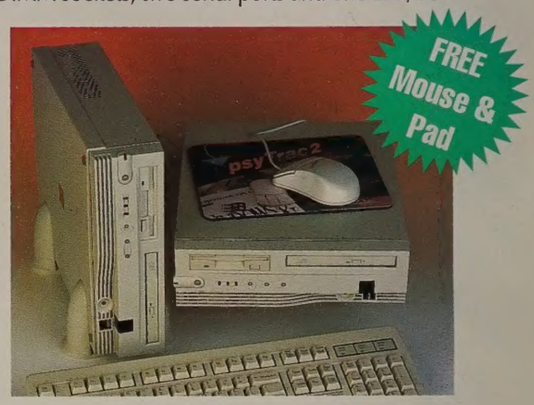


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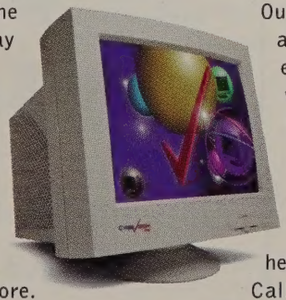

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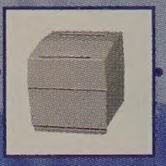

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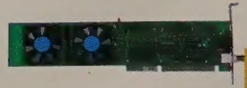

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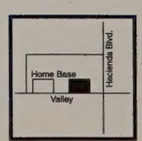


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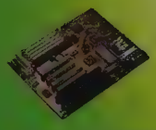

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Designed for Microsoft Windows 95

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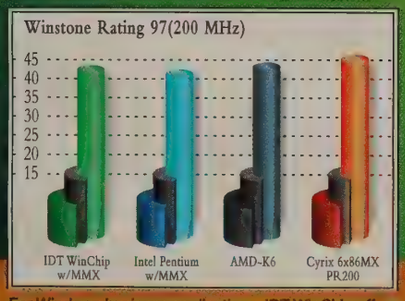
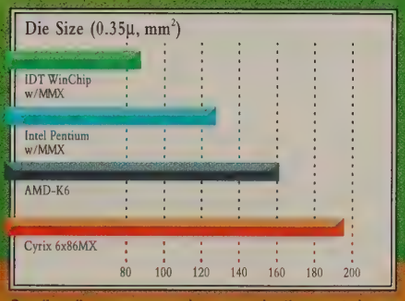



For Windows business applications, IDT WinChip offers comparable performance to Intel Pentium® with MMX™ Technology, AMD-K6® and Cyrix 6x86MX™.

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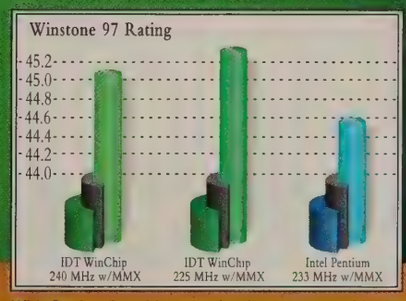


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*- Desktop Publishers Review - Dec. 97*

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*- Computer Shopper Review - Oct. 97*

*Visual Sensations...*

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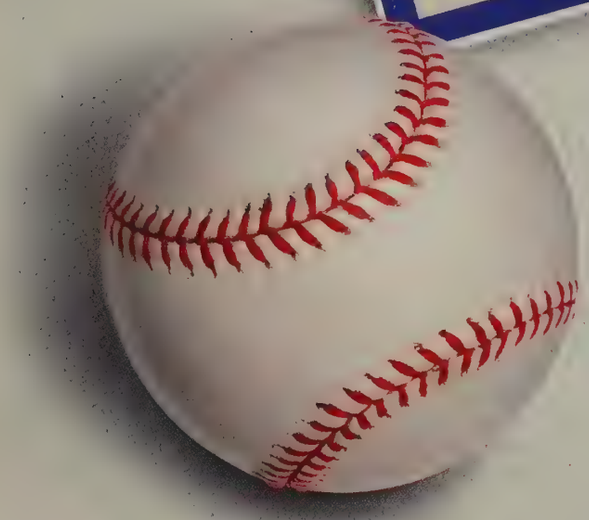
# This Season's All-Star Player

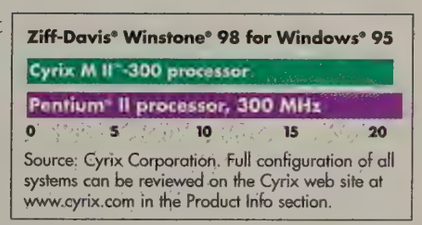
FEATURES
No Performance Anxiety
• MMX enhanced technology for multimedia power performance
• Software compatibility for optimum 16-bit or 32-bit performance
• 64-KByte internal cache to boost processing performance
• Pipeline architecture for multitask performance
What's the Difference?
Cyrix M II™-300
Pentium® II
MMX™-enhanced
X
Windows® 95 Compatible
X
On-chip Cache
32K
Sixth-generation Architecture
X
• The larger internal cache of the M II-300, which boosts performance by significantly reducing processing time, is the difference.
Increase Profit Margins
• The ability to add more desirable features like larger hard drives, more memory, faster modems and enhanced video cards creates a greater value for your customers and increases your profit margins.
Cyrix® M II™ PROCESSOR
Cyrix® M II™ PROCESSOR
Cyrix®
A National Semiconductor Company



## Play Ball!

The new Cyrix M II™-300 processor, the fastest chip of its kind, puts speed on the base pads and power at the plate.

The M II-300 equals the performance of the Pentium® II processor at a significantly lower cost. This savings allows you to produce feature-rich systems at the same price point. So, you can create a greater value for your customers while increasing your profit margins.




Source: Cyrix Corporation. Full configuration of all systems can be reviewed on the Cyrix web site at www.cyrix.com in the Product Info section.

Cyrix also ensures the M II-300 hits a home run in compatibility with the latest games and business applications running on Windows® 98.

***Step up to the plate with the performance of the Cyrix M II-300!***

| Arrow Electronics, Inc. | Hamilton | Pioneer | Wyle Direct |
|---|---|---|---|
| 800-833-3557 | 800-778-2668 | 800-664-7365 | 800-414-4144 |

©1998 Cyrix Corporation. Cyrix is a registered trademark and Cyrix M II-300 is a trademark of Cyrix Corporation. All other brands and names are the property of their respective owners. Megahertz-equivalent performance level. Based upon industry-standard benchmark comparisons to the Pentium® II processor when tested in equivalently configured computer systems. For further information on the performance of Cyrix processors, please visit the Cyrix web site at www.cyrix.com.

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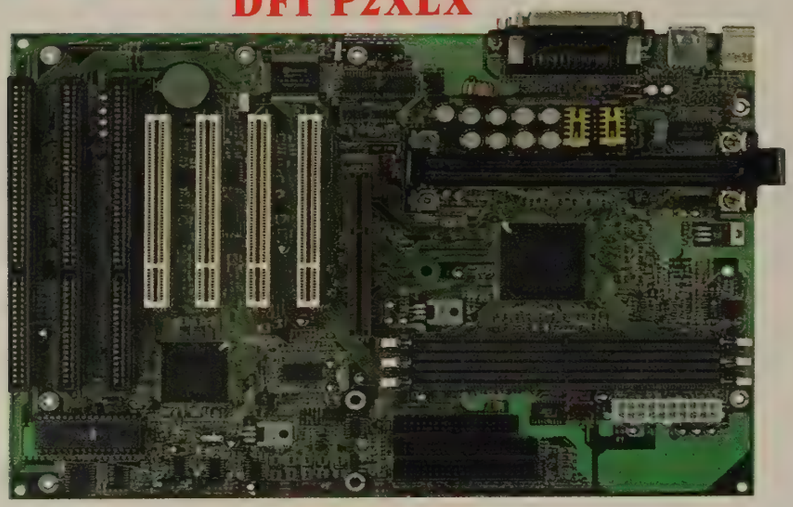
2 Year Warranty

## DFI P2XLX



## P2XLX

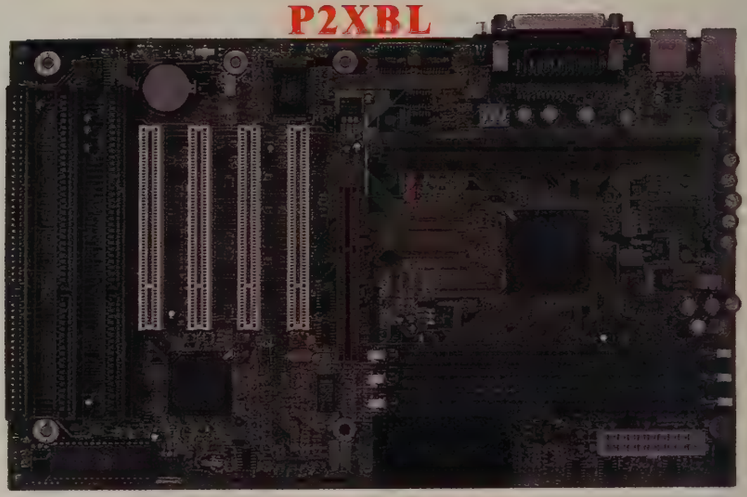
- *A.G.P. for 3D graphic application*
- *Bandwidth 533MB/sec*
- *Support ACPI & OS Directed Power Mgmt*
- *Ultra DMA/33MB/sec*
- *Supports Modem Wake-Up/Ring-On*
- *RTC timer to power on or wake-up the system*
- *System Temperature, power voltages, fan control*
- *Intel® LDCM™ support (optional)*
- *Intel ATX 2.01 compliant*

## P2XBL

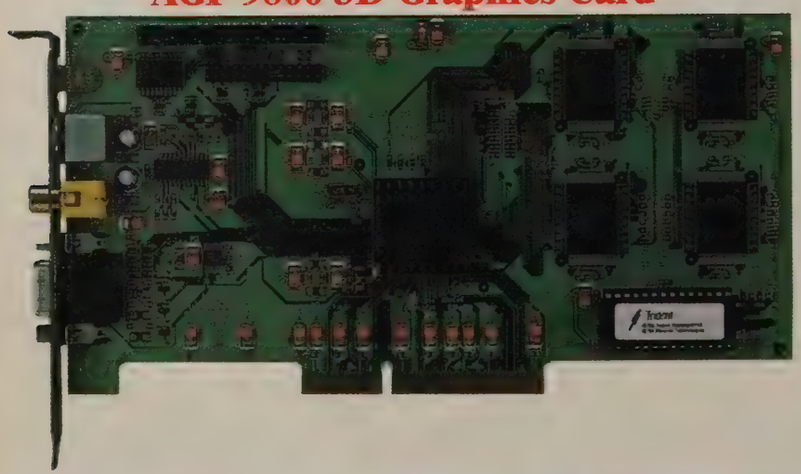
*Intel® 440BX AGPset*

- *Support both 66MHz and 100MHz Host bus Frequency*
- *Supports Intel Pentium® II processor up to 400MHz and future frequency*
- *NSTL Certified*
- *Accelerated Graphics Port (AGP) with up to 533MB/sec.*
- *Supports ACPI specification*
- *Supports modem ring-on*
- *Supports Wake-On-LAN Function*
- *LDCM (optional)*
- *Intel Verification Lab Verified*
- *Monitors Processor Temperature, Power Voltages, Fan Speed and Automatic Processor Fan Control*
- *EC and ECC Supported*

## P2XBL



## AGP 9800 3D Graphics Card



## AGP 9800

- *133MHz 3D video accelerator AGP card*
- *Supports sideband 2x mode for enhanced performance*
- *4MB on board SGRAM*
- *Support 64-bit memory interface*
- *Full hardware setup*
- *Alpha blending for transparent effects*
- *Z-Buffer at 16/32 bpp*
- *Supports anti-flicker NTSC/PAL TV out*
- *Windows® 95, Windows NT®, and Microsoft® DirectX drivers*

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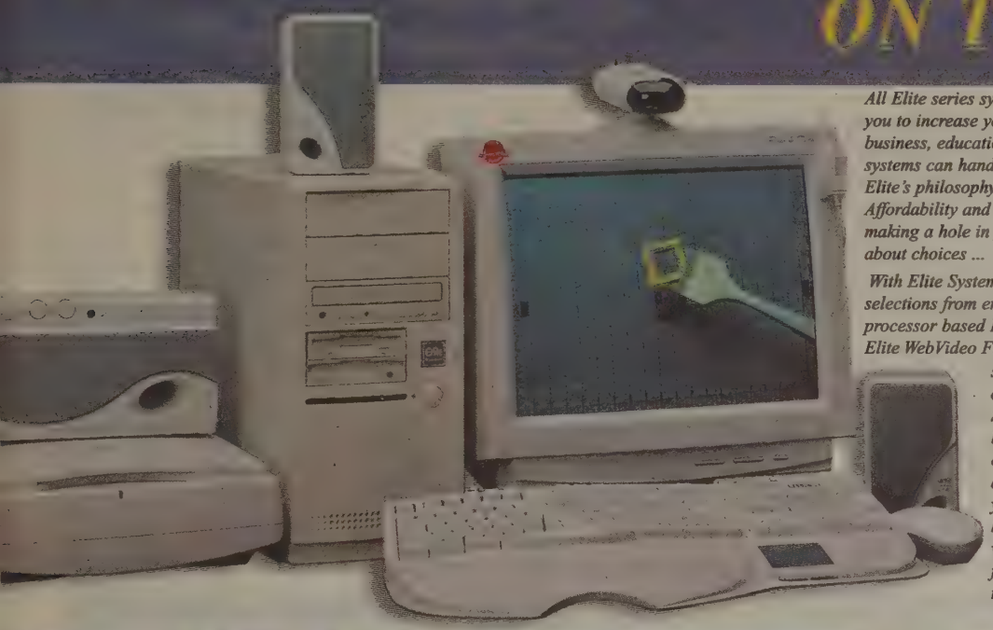

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- **6.0 Gigabyte** Ultra IDE Hard Drive
- **PCI *3D Graphics* w/ 4MB (MPEG)**
- **17"** FST SVGA NI ***Digital*** Color Monitor
- **32X Speed** EIDE **CD-ROM Drive**
- **PCI 56K V.90 Fax Modem (Internet ready)**
- **PCI *Video Capture / Conference Card***
- **PCI *Wave 64/3D AC-3 Dolby* Sound card**
- ***SuperWoofer*** & Full Range Speakers
- **Tower Case,** Hi Res. Serial Mouse & Mic.
- **High Speed** 2 Serial, 1 Parallel & **USB** ports
- Microsoft Windows '95 **OR** Windows '98
- **Corel WordPerfect Suite** (Word Perfect. Quatro Pro, Corel Presentation, Navigator, SideKick, 10,000 Cliparts, 150 types of fonts)
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| # *MT087PII30* | P-II 300 | $ 1288 |
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- **64MB RAM**
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- **36X Speed** EIDE **CD-ROM Drive**
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- **PCI Wave *64/3D AC-3 Dolby Sound*** card
- **Tower Case, *SuperWoofer*** Speakers & Mic.
- **High Speed** 2 Serial, 1 Parallel & **USB** ports
- Microsoft Windows '95 **OR** Windows '98
- **Corel WordPerfect Suite** (WordPerfect, Quatro Pro, Corel Presentation, Navigator, 10,000 Cliparts, SideKick, 150 types of fonts)
- **Windows certified** 104-keys Keyboard
- **FREE FLATBED COLOR SCANNER**

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| # *MT088PII26* | P-II 266 | $ 1288 |
| # *MT088PII30* | P-II 300 | $ 1388 |
| # *MT088PII33* | P-II 333 | $ 1498 |
| # *MT088PII35* | P-II 350 | $ 1658 |
| # *MT088PII40* | P-II 400 | $ 1868 |

## Elite Arcade-3D

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- 1.4MB 3.5" Floppy Drive
- **6.0 Gigabyte** Ultra IDE Hard Drive
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- **17"** FST SVGA NI ***Digital*** Color Monitor
- **32X Speed** EIDE **CD-ROM Drive**
- **PCI 56K V.90** Fax Modem **(Internet ready)**
- **PCI *Wave 64/3D AC-3 Dolby*** Sound card
- ***SuperWoofer*** & Full Range Speakers
- **Tower Case,** Hi-Res. Serial Mouse
- **High Speed** 2 Serial, Parallel & **USB** ports
- Microsoft Windows '95 **OR** Windows '98
- **Windows certified** 104-keys Keyboard

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| # *MT081M30* | MMX 300 | $ 1028 |
| # *MT081PII23* | P-II 233 | $ 1098 |
| # *MT081PII26* | P-II 266 | $ 1128 |
| # *MT081PII30* | P-II 300 | $ 1228 |
| # *MT081PII33* | P-II 333 | $ 1338 |
| # *MT081PII35* | P-II 350 | $ 1498 |
| # *MT081PII40* | P-II 400 | $ 1708 |

## Elite DVD-III

- **64MB RAM**
- 1.4MB 3.5" Floppy Drive
- **6.0 Gigabyte** Ultra IDE Hard Drive
- **PCI *3D Graphics Accel. w/* 4MB (MPEG)**
- **17"** FST SVGA NI ***Digital*** Color Monitor
- **DVD-ROM** Drive (See DVD movie)
- **PCI 56K V.90** Fax Modem **(Internet ready)**
- **PCI *Wave 64/3D AC-3 Dolby*** Sound card
- ***SuperWoofer*** & Full Range Speakers
- **Tower Case,** Hi-Res. Serial Mouse
- **High speed** 2 Serial, 1 parallel & **USB** ports
- Microsoft Windows '95 **OR** Windows '98
- **Corel WordPerfect Suite** (WordPerfect, Quatro Pro, Corel Presentation, Navigator, Sidekick, 10,000 Cliparts, 150 types of fonts)
- **Windows certified** 104-keys Keyboard
- **FREE IOMEGA ZIP DRIVE**

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| # *MT083M30* | MMX 300 | $ 1188 |
| # *MT083PII23* | P-II 233 | $ 1258 |
| # *MT083PII26* | P-II 266 | $ 1288 |
| # *MT083PII30* | P-II 300 | $ 1388 |
| # *MT083PII33* | P-II 333 | $ 1498 |
| # *MT083PII35* | P-II 350 | $ 1658 |
| # *MT083PII40* | P-II 400 | $ 1868 |

## Elite Home Media

- **32MB RAM**
- 1.4MB 3.5" Floppy Drive
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- **15"** FST SVGA .28dp ***Digital*** Color Monitor
- **32X Speed** EIDE **CD-ROM Drive**
- **PCI 56K V.90 Fax Modem (Internet ready)**
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- **High Speed** 2 Serial, 1 Parallel & **USB** ports
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- **Groiler's Encyclopedia** (Vast reference)
- Microsoft Windows '95 **OR** Windows '98
- **Windows certified** 104-keys Keyboard

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| # *MT085M26* | MMX 266 | $ 768 |
| # *MT085PII23* | P-II 233 | $ 848 |
| # *MT085PII26* | P-II 266 | $ 878 |
| # *MT085PII30* | P-II 300 | $ 978 |
| # *MT085PII33* | P-II 333 | $ 1088 |
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## Elite Office Media Pro

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- 1.4MB 3.5" Floppy Drive
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- **Tower Case,** Amplified **80 Watts** Speakers
- **High Speed** 2 Serial, 1 Parallel & **USB** Ports
- Microsoft Windows '95 **OR** '98 & mouse
- **Corel WordPerfect Suite** (WordPerfect, Quatro Pro, Corel Presentation, Navigator, 10,000 Cliparts, SideKick, 150 types of fonts)
- **Windows certified** 104 -keys Keyboard
- **FREE IOMEGA ZIP DRIVE**

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| # *MT089PII26* | P-II 266 | $ 1018 |
| # *MT089PII30* | P-II 300 | $ 1118 |
| # *MT089PII33* | P-II 333 | $ 1228 |
| # *MT089PII35* | P-II 350 | $ 1388 |
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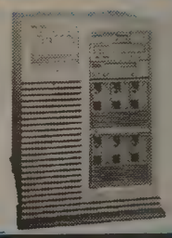

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ATI 2MB 64 Bit Video
32X CD-ROM Drive
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Mini Tower Floor Stand
64MB SDRAM
512K Burst cache
4.3G Ultra IDE Hard Drive (11ms)
17" Monitor (15.9 viewable)
ATI 2MB 64 Bit Video
32X CD-ROM
2 Universal Serial Bus
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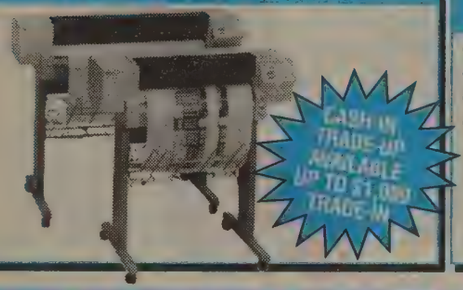


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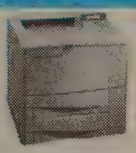
17 PPM, 1200 dpi
1X 500 Sheet Tray
Straight Through Paper Path
2EIO Slots
Postscript Ready

**4000 $1060**



| 4000N | 4000T | 4000TN |
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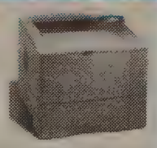
| $1380 | $1210 | $1525 |
| Network Ready 8MB RAM | 2X250 Sheet Trays 4MB RAM | 2X250 Sheet Trays 4MB RAM Network Ready |

## HP LaserJet 5000 NEW!

- 16 PPM
- 4MB RAM
- Up to 11" x 17" Paper

**5000 $1420**



| 5000N | 5000GN |
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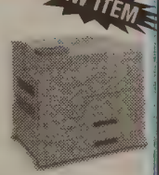
| $1975 | $2535 |
| Network Ready 850 Sheet Capacity Three Trays | Network Ready Graphics Printer |

## HP LaserJet 8000

- 24 PPM, 133MHz
- HP Fast Rez 1200
- 3 Paper Trays, 1100 Sheets
- 16MB RAM
- 21"x21" Footprint

NEW ITEM



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- Up to 3 PPM Color
- 1200 dpi

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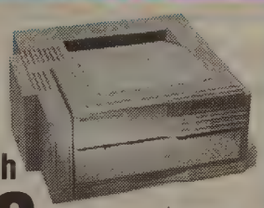
## HP LaserJet 6Pxi

- 600 dpi
- 8 PPM
- 2MB RAM
- Straight Paper Path



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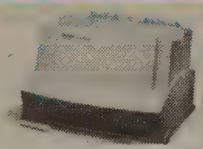
## HP LaserJet 6Lxi

- 5 PPM
- 600 dpi
- 1MB RAM



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- Fax
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- Scanner
- Stand Alone

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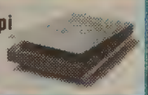
## HP ScanJet 6100

- Flat Bed, Color, Mono
- 600 dpi, Up to 2400 dpi
- 3 to 400% Scalling at 600 dpi **$699**



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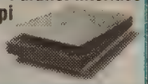
- 600 dpi, Up to 2400 dpi
- 12 to 400% Scalling at 300 dpi **$299**



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| HP OfficeJet 520 | $375 |
| HP OfficeJet 630 | $495 |
| HP OfficeJet Pro 1170 Cxi | $795 |
| HP OfficeJet Pro 1175 Cxi | $995 |
| HP Color Copier 110 | $575 |
| HP Color Copier 210 LX | $875 |

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MICROTIMES
July 16, 1998 • Issue #181

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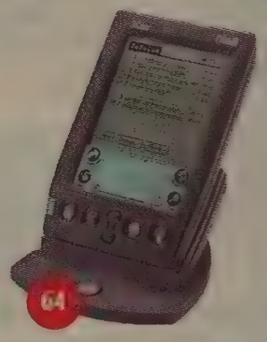


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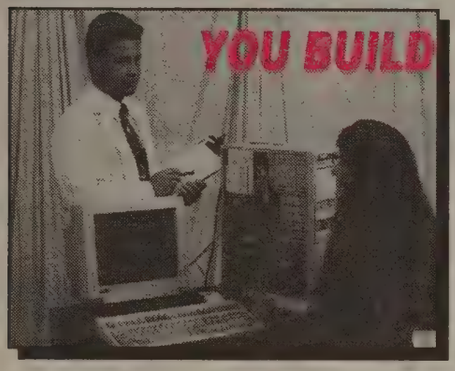


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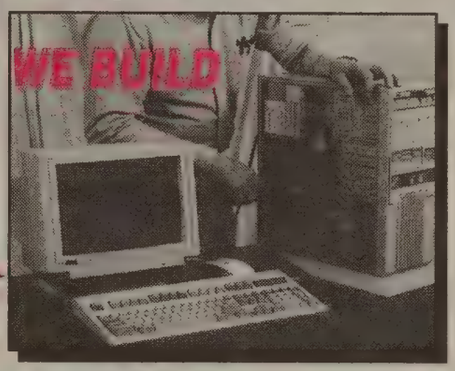


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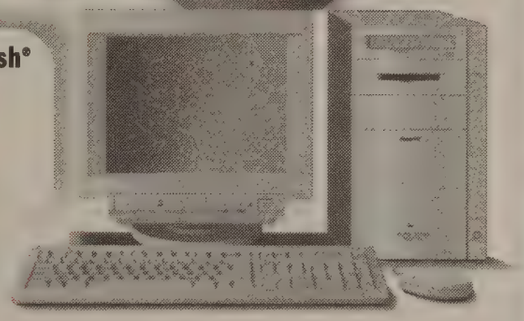

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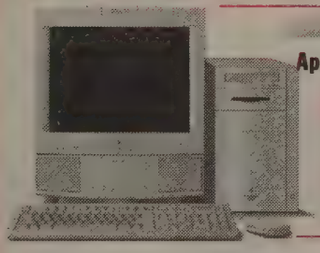

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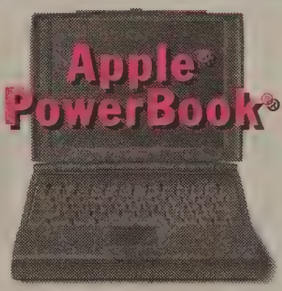


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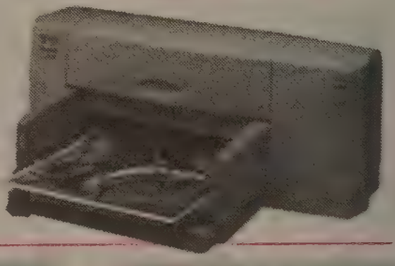

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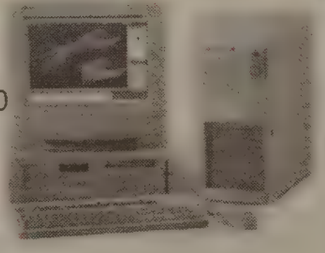

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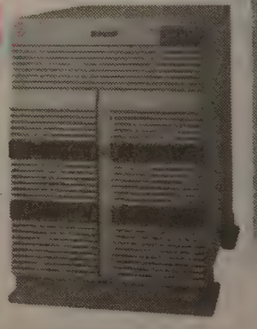

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MICROTIMES
July 16, 1998 • Issue #181

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Warren is one of the named plaintiffs in the constitutional challenge against the Communications Decency Act, that was overturned in June, 1997, by the U.S. Supreme Court.

He founded InfoWorld, was founding host of PBS' *Computer Chronicles*, founding editor of *Dr. Dobb's Journal* and served half a decade on the Board of Directors of Autodesk, Inc.

He has received the Hugh M. Hefner First Amendment Award (1994), James Madison Freedom-of-Information Award from the Society of Professional Journalists—Northern California (1994), the Electronic Frontier Foundation Pioneer Award (1992, its first year) and the John Dvorak Lifetime Achievement Award (1995).

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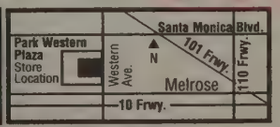


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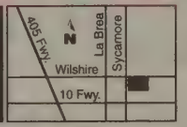


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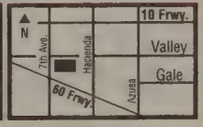

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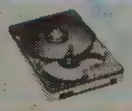

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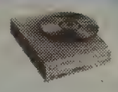

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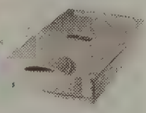

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ASSOCIATE PTM
*Mark Wortman*

AD COORDINATORS
*Kay Simmons, Jesse Sullivan*

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*James Lawrence, Jay Olson, Heather Porter, Tracy Sutherland*

FOUNDERS: *Dennis Erokan, Don Hamilton, Pat Hamilton*

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PC Magazine Editors' Choice — October 1997 (Matrox)

PC Computing Best — Feb. 1998

PC Computing ★★★★★ — Mar. 1998

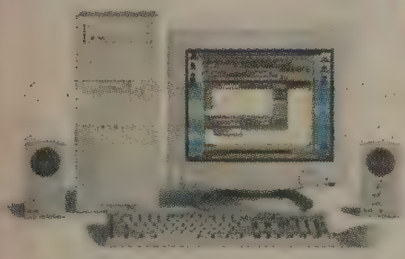
## MULTIMEDIA SCREAMER

- 266MHz INTEL Pentium® II Processor w/MMX™ Technology
- INTEL® **440BX NEW!**
- 512K L2 Cache
- **64MB SDRAM** Memory (10ns)
- **6.4GB Ultra ATA** HDD (<10ms)
- Matrox **Millennium II 3D 4MB** AGP
- **17"** SVGA Monitor .28 Dot Pitch
- **56.6K** Fax-Modem-Voice-Full Duplex
- Creative AWE 64 Sound Card
- 32X Toshiba EIDE CD-ROM Drive
- Premium Sound System w/Sub-Woofer
- 3.5" Floppy Drive, PS2 Mouse
- 104 Key Ergonomic PS2 Keyboard
- Mid-Tower ATX Case
- Windows 95 on CD
- Premier Software Package
- Unbeatable **3 Year Warranty**

**PII 300.....$1495**
**PII 333.....$1695**
**PII 400.....$1995**

$1395

**AGP texturing:** Also called Direct Memory Execute mode, AGP texturing provides much greater realism by letting AGP graphics cards use large amounts of your computer's system memory to build 3D graphics.



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3.0GB Hard Drive
32MB SDRAM Memory
1.44MB Floppy Drive
EIDE 24X CD-ROM
3D Plug 'n' Play Stereo Sound Card
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104 Key Keyboard, Ergonomic Mouse
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3 Year Parts, Free Lifetime Labor Warranty

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**Pentium® 233 MMX..$639**
**AMD K6 233 MMX....$609**

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Mini Tower or Desktop Case
3.2GB Hard Drive
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104 Key Keyboard, Ergonomic Mouse
Lotus Smart Suite 97 on CD
3 Year Parts, Free Lifetime Labor Warranty
80-Watt Stereo Speakers

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**Intel PII-233 MMX....$899**
**AMD K6 233 MMX....$679**

## CORPORATE STATION 266

ATX Mid Tower Case
Intel 440BX NEW! Chipset & Accelerated Graphics Port
6.4GB Ultra DMA Hard Drive
64MB SDRAM Memory
Toshiba 24X CD-ROM
PCI 32 Wave Table Sound Card
56K Fax/Modem w/Voice & Speaker Phone
AGP 4MB Video Adapter
15" .28 Monitor (13.8" Viewable)
(Upgrade to 17" .26 $159)

Microsoft Windows 95 & Lotus Smart Suite 97 on CD
500+ CD Titles with Encyclopedia
104 Key Keyboard, Ergonomic Mouse
Speakers System w/Subwoofer
3 Year Parts, Free Lifetime Labor Warranty

**$999**

**Intel P-II 300 MMX $1099**
**Intel P-II 333 MMX $1199**
**Intel P-II 400 MMX $1499**

## SUPER POWER STATION 266

ATX Mid Tower Case
Intel 440BX NEW! Chipset & Accelerated Graphics Port
8.4GB Ultra DMA Hard Drive
64MB SDRAM Memory
Toshiba 32X CD-ROM
PCI Network Adapter
56K Fax/Modem w/Voice & Speaker Phone
AWE 64 Table Sound Card
AGP Matrox Millennium II 4MB WRAM Video Adapter

17" .26 Monitor (on screen Digital Control)
Microsoft Windows 95 & Lotus Smart Suite 97 on CD
500+ CD Titles with Encyclopedia
104 Key Keyboard, Ergonomic Mouse
Speakers System w/Subwoofer
3 Year Parts, Free Lifetime Labor Warranty

**$1495**

**Intel P-II 300 MMX $1595**
**Intel P-II 333 MMX $1695**
**Intel P-II 400 MMX $1995**

## MAXBOOK 233MMX

- Intel P-233 MMX Processor
- 32MB RAM Expandable
- 512K L2 Cache Memory
- 13.1 TFT/Active Matrix Display
- 1.44 Floppy Drive
- 24X CD-ROM Intergrated w/Floppy
- 2.1GB Toshiba Hard Disk Drive
- 4MB Video Memory 128-Bit
- Carrying Case
- 1-Year on Site Warranty, 3-Year Warranty

**$1595**

## MAXBOOK 166MMX

- Intel P-166 MMX Processor
- 32MB RAM Expandable
- 512K L2 Cache Memory
- 12.1 TFT/Active Display
- 1.44 Floppy Drive
- 16X CD-ROM
- 2.1GB Toshiba Hard Disk Drive
- 128-Bit 2MB Video Display
- Carrying Case
- 3 Year Limited Warrantly

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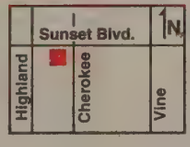


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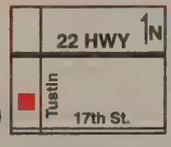


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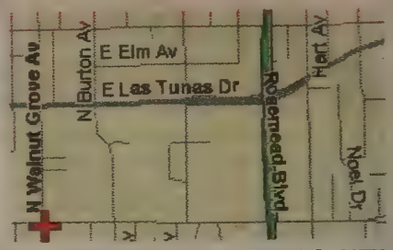

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(just north of the railroad, inside the industrial park)

### Pentium II / K6-2 System 1
Intel LX Chipset MB w/ AGP (BX for 350&400MHz)
32 MB SDRAM(PC100 for 350&400MHz)
3.2 GB ultra IDE hard drive
24x EIDE CD-ROM
4MB AGP video card
15" .28 DP color monitor
Yamaha 16-bit PnP sound card
100 Watt Stereo speakers w/ mic
56K v90/Flex internal voice/fax modem
1.44 MB floppy drive
2 serial, 1 parallel, 2 USB, 1 game port
3-button PS/2 mouse
104-key Win95 keyboard
7-bay medium ATX tower
Microsoft Windows 98
Lotus Smartsuite'97 & Grolier's Encyclopedia

| | |
|---|---|
| PII 233 MHz | $820 |
| PII 266 MHz | $880 |
| PII 300 MHz | $970 |
| PII 333 MHz | $1080 |
| PII 350 MHz | $1245 |
| PII 400 MHz | $1460 |
| K6-2 266 MHz | $820 (MVP3 chipset) |
| K6-2 300 MHz | $880 (MVP3 chipset) |

### Pentium II / K6-2 System 2
Intel LX Chipset MB w/ AGP (BX for 350&400MHz)
64 MB SDRAM(PC100 for 350&400 MHz)
4.3 GB ultra IDE hard drive
24x EIDE CD-ROM
4MB AGP video card
15" .28 DP color monitor
Yamaha 16-bit PnP sound card
100 Watt Stereo speakers w/ mic
56K v90/Flex internal voice/fax modem
1.44 MB floppy drive
2 serial, 1 parallel, 2 USB, 1 game port
3-button PS/2 mouse
104-key Win95 keyboard
7-bay medium ATX tower
Microsoft Windows 98
Lotus Smartsuite'97 & Grolier's Encyclopedia

| | |
|---|---|
| PII 233 MHz | $860 |
| PII 266 MHz | $910 |
| PII 300 MHz | $1025 |
| PII 333 MHz | $1135 |
| PII 350 MHz | $1300 |
| PII 400 MHz | $1515 |
| K6-2 266 MHz | $875 (MVP3 chipset) |
| K6-2 300 MHz | $935 (MVP3 chipset) |

### Pentium II / K6-2 System 3
Intel LX chipset MB, AGP (BX for 350&400MHz)
64 MB SDRAM(PC100 for 350&400MHz)
6.4 GB ultra IDE hard drive
32x EIDE CD-ROM
ATI Xpert@Work 4Mb AGP video
17" .28 DP color monitor
Creative Labs AWE64 PnP sound card
240 Watt Stereo speakers w/ mic
56K v90/Flex int voice/fax modem
1.44 MB floppy drive
2 serial, 1 parallel, 2 USB, 1 game port
3-button PS/2 mouse
104-key Win95 keyboard
7-bay medium ATX tower
Microsoft Windows 98
Lotus Smartsuite'97 & Grolier's Encyclopedia

| | |
|---|---|
| PII 233 MHz | $1140 |
| PII 266 MHz | $1175 |
| PII 300 MHz | $1285 |
| PII 333 MHz | $1395 |
| PII 350 MHz | $1565 |
| PII 400 MHz | $1780 |
| K6-2 266 MHz | $1135 (MPV3 chipset) |
| K6-2 300 MHz | $1195 (MVP3 chipset) |

### Pentium II / K6-2 System 4
Asus MB w/ Intel LX Chipset (BX for 350&400MHz)
64 MB SDRAM(PC100 for 350&400MHz)
6.4 GB ultra IDE hard drive
Toshiba 2nd Generation DVD-ROM
RealMagic Hollywood MPEG II Card
ATI Xpert@Work 4Mb AGP video
17" Optiquest V775 .26 DP color monitor
Creative Labs AWE 64 PnP soundcard
Satellite speakers w/ subwoofer
Diamond 56K v90/Flex int PCI faxmodem
1.44 MB floppy drive
Logitech Firstmouse+ PS/2 mouse w/ wheel
104-key Win95 keyboard
7-bay medium ATX tower
Microsoft Windows 98
Lotus Smartsuite'97 & Grolier's Encyclopedia

| | |
|---|---|
| PII 233 MHz | $1555 |
| PII 266 MHz | $1585 |
| PII 300 MHz | $1695 |
| PII 333 MHz | $1805 |
| PII 350 MHz | $1965 |
| PII 400 MHz | $2180 |
| K6-2 266 MHz | $1495 (MVP3 chipset) |
| K6-2 300 MHz | $1560 (MVP3 chipset) |

### Pentium System 1
Intel TX Chipset motherboard
32 MB SDRAM
3.2 GB ultra IDE hard drive
24x EIDE CD-ROM
4MB PCI video card
15" .28 DP color monitor
Yamaha 16-bit PnP sound card
100 Watt Stereo speakers w/ mic
56K V90/Flex internal voice/fax modem
1.44 MB floppy drive
2 serial, 1 parallel, 2 USB, 1 game port
3-button PS/2 mouse
104-key Win95 keyboard
mini AT tower
Microsoft Windows 98
Lotus Smartsuite'97 & Grolier's Encyclopedia

| | |
|---|---|
| Intel P200 MMX | $725 |
| Intel P233 MMX | $735 |
| AMD K6 200 MHz | $685 |
| AMD K6 233 MHz | $695 |
| AMD k6 266 MHz | $725 |

### Pentium System 2
Intel TX Chipset motherboard
64 MB SDRAM
4.3 GB ultra IDE hard drive
24x EIDE CD-ROM
S3 Virge PCI video
15" .28 DP color monitor
Yamaha 16-bit PnP sound card
100 Watt Stereo speakers w/ mic
56K V90/Flex internal voice modem
1.44 MB floppy drive
2 serial, 1 parallel, 2 USB, 1 game port
3-button PS/2 mouse
104-key Win95 keyboard
medium AT tower
Microsoft Windows 98
Lotus Smartsuite'97 & Grolier's Encyclopedia

| | |
|---|---|
| Intel P200 MMX | $805 |
| Intel P233 MMX | $815 |
| AMD K6 200 MHz | $765 |
| AMD K6 233 MHz | $775 |
| AMD K6 266 MHz | $805 |

### Cases

| | |
|---|---|
| *Enlight* AT medium | $60 |
| *Enlight* ATX medium | $68 |
| Generic AT medium | $50 |
| Generic ATX medium | $60 |
| *Inwin* ATX medium | $68 |

### CD-ROM / DVD-ROM

| | |
|---|---|
| *Cyberdrive* 24x int IDE | $45 |
| *Cyberdrive* 32x int IDE | $50 |
| *Toshiba* 24x int IDE | $55 |
| *Toshiba* 32x int IDE | $65 |
| *Toshiba* 32x int SCSI | $100 |
| *Toshiba* 2x DVD-ROM | $130 |
| *Hitachi* 2x DVD-ROM | $120 |
| *RealMagic* MPEG2 decoder | $105 |

### Hard Drives

| | |
|---|---|
| *Seagate* | |
| 4.3 UDMA | Call |
| 6.4 UDMA | $187 |
| *Western Digital Caviar* | |
| 4.3 UDMA | $147 |
| 6.4 UDMA | $188 |
| 8.4 UDMA | Call |
| *Maxtor DiamondMax* | |
| 4.3 UDMA | $140 |
| 6.4 UDMA | $180 |
| 8.4 UDMA | Call |
| 11.5 UDMA | $352 |
| *Quantum* | |
| 4.3 UDMA | Call |
| 6.4 UDMA | Call |

### Memory

| | |
|---|---|
| PC100 128 MB | $160 |
| PC100 64 MB | $85 |
| PC100 32MB | $45 |
| 128MB SDRAM | $135 |
| 64 MB SDRAM | $75 |
| 32 MB SDRAM | $30 |

### Modems

| | |
|---|---|
| *Diamond* 56K v90 PCI | $60 |
| *Accex* 56K v90 voice/fax | $55 |
| *USR* 56K v90 voice/fax | $110 |

### Monitors

| | |
|---|---|
| *Viewsonic* | Call |
| *Optiquest* | Call |
| *Amptron* 17" | $250 |
| *Amptron* 15" | $140 |

### Sound Cards

| | |
|---|---|
| SB AWE64V | $63 |
| *Yamaha* sound | $15 |
| *Aureal* 3D sound card | $35 |

### Motherboards

| | |
|---|---|
| *AOpen* AX6B | $170 |
| *AOpen* AX6L | $140 |
| *Asus* P2B | $170 |
| *Asus* P2L97 | $130 |
| *Abit* BX6 | $155 |
| *Abit* LX6 | $110 |
| *FIC* VA-503+ | $95 |
| *FIC* 2013 | Call |
| *Epox* 51MVP3E | $105 |
| *Epox* 58MVP3C | $95 |
| *Otto* LX MB | $80 |

### Processors

| | |
|---|---|
| *Intel Pentium II* | |
| 400MHz | $725 |
| 350MHz | $515 |
| 333MHz | $410 |
| 300MHz | $305 |
| 266MHz | $205 |
| 233MHz | $170 |
| PII CPU fan | $10 |
| *Intel Pentium MMX* | |
| 233MHz | $115 |
| 200MHz | $105 |
| Pentium CPU Fan | $6 |
| *AMD* | |
| K6-2 333MHz | Call |
| K6-2 300MHz | $185 |
| K6-2 266MHz | $135 |
| K6 233MHz | $80 |
| K6 200MHz | $70 |

### Video Cards

| | |
|---|---|
| *ATI* Xpert | |
| @Work 4M AGP | $75 |
| @Work 8M AGP | $99 |
| @Play 4M AGP | $90 |
| @Play 8M AGP | $115 |
| All-In-Wonder Pro | |
| 4MB AGP | $215 |
| 8MB AGP | $240 |
| *Asus* | |
| V2740 8M AGP | $120 |
| *Diamond* | |
| Viper 4M AGP | $80 |
| *Matrox* | |
| Productiva 8M AGP | Call |
| Millenium2 4M AGP | $119 |
| Millenium2 8M AGP | $170 |
| Millenium G200 | Call |
| Mystique G200 | Call |
| Intel 740 8M AGP | $70 |

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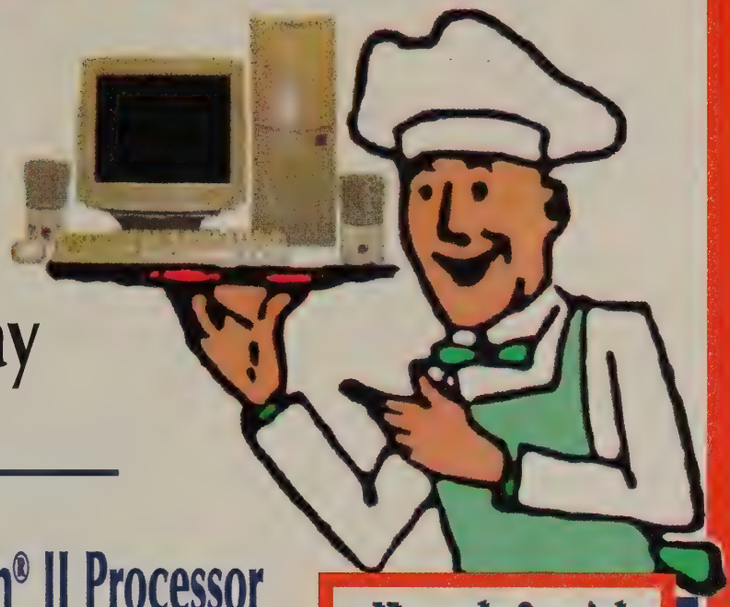
- Cooking the best "disk" - Integration



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- Powered Speakers
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- 64MB PC100 SDRAM
- 1.44 Floppy Drive
- Windows 95 w/Windows 98 Upgrade Coupon

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Intel® Pentium® II Processor 350MHz .. $1595
Intel® Pentium® II Processor 333MHz .. $1385
Intel® Pentium® II Processor 300MHz .. $1265
Intel® Pentium® II Processor 266MHz .. $1110
Intel® Pentium® II Processor 233MHz .. $1050

### Upgrade Specials

SpecComm Digital Camera
**$99**

SCSI Re-Writable SONY CD-RW
**$450**

12/24GB SONY DAT Drives
**$895**

DVD Toshiba 3rd Generation
4.8X MAX, 32X CD-ROM
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17' C72 .25
1280X1024 24-121-111

19' C92 .26
1600X1200 24-121-109

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WD 6.4 $189 22-124-102
Maxtor 4.3 $134 22-116-107
Maxtor 6.4 $169 22-124-106
Maxtor 8.4 $235 22-125-101
Maxtor 11.5 $340 22-125-103

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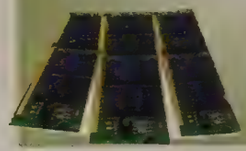
32M EDORAM $28 20-112-102
32M SDRAM $29 20-116-101
64M SDRAM $69 20-124-101



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ATI XPERT@WORK AGP
4Mb/8Mb 14-102-118/119 ...$69/$95

ATI XPERT@Play AGP w/TV out
4Mb/8Mb 14-102-121/123 ...$89/$109

ATI XPERT98 AGP w/8Mb..$79
14-102-134

ATI All-in-Wonder pro AGP
4Mb/8Mb 14-102-128/129 ...$204/228

Intel Mothbord

Intel PII BX MB
13-116-105 $109

Intel PII LX MB
13-112-112 $79

CREATIVE

SoundBlaster 64AWE PnP ..... $56
29-102-123

SoundBlaster 64AWE Gold ..... $119
29-102-119

Ensoniq PCI 64B SoundCard..... $19
29-106-101

Yamaha 3D WaveTable SoundCard.... $15
29-104-105

36X CD-ROM IDE
70-102-101 $49

32X Toshiba IDE
27-116-101 $65

32X CD-ROM IDE
27-116-102 $44

6X2X2 Philip CDR
27-109-108 $319

MODEM 56K V.90 ITU FAX MODEM

V.90 / X2 INT
25-113-104 $49

V.90 / FLEX
25-113-102 $49

PCI network card $15
33-117-101

3Com Ethernet 905B PCI $59
33-105-109

Hub 8+1 port 10-Base-T $39
17-111-105

Hub16+1 port 10-base-T $69
17-111-103

Case
Medium Tower ATX
11-108-121 $49

Case
Mini Tower AT
11-103-104 $23

ZIP Drive IOMEGA 100MB
Internal IDE
40-107-106 $79

HP Colorado T3000 3.2G
Tape Backup
40-108-101 $159

Epson Stylus Color 600
1440X720 dpi
28-103-105 $188

ARTEC Scanner
AS6E Flabed
38-103-104 $68

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70-501-101 $9.00

Logitch Mouse Serial 26-104-104 $12.00

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- Intel 440 LX/BX AGP Motherboard
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- 12GB Ultra ATA Hard Drive
- ATI @ WORK 8MB AGP
- DVD ROM 2nd Gen.
- Creative Labs Soundblaster AWE 64
- Subwoofer w/Power Speaker
- Desktop Microphone
- 56k US Robotics Fax Modem, Plug & Play, V. 90 w/Voice Mail, Internet Ready
- 17" .26 NI SVGA Color Monitor
- 1.44MB Floppy Drive
- High Speed I/O Port 2S,1P,1G
- PS/2 Keyboard for WIN '95 104-K
- ATX Medium Tower Case, 7-Bay
- PS/2 Intellimouse
- Microsoft® Windows '98 Pre-installed w/Manual,CD
- Grolier's Encyclopedia & Lotus Smartsuite '97

| | |
|---|---|
| #8011 Pentium II ®400: | $ 2034 |
| #8012 Pentium II ®350: | $ 1800 |
| #8013 Pentium II ®333: | $ 1664 |
| #8014 Pentium II ®300: | $ 1557 |
| #8015 Pentium II ®266: | $ 1438 |
| #8016 Pentium II ®233: | $ 1422 |

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**Multimedia System**
*64M/8.4GB/36X/17"/56K*

- Intel Pentium II Processor
- Intel 440 LX/BX AGP Motherboard
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- 8.4GB ULTRA ATA Hard Drive
- AGP 4MB SGRAM SVGA
- 36X EIDE CD-ROM
- Yamaha 3D Wavetable Stereo 128s IDE Sound card
- 240 Watt Power Stereo Speaker
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- 17" NI .28 SVGA Color Monitor
- 1.44MB Floppy Drive
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- 17" NI. 28 SVGA Color Monitor
- 1.44MB Floppy Drive
- High Speed I/O Port 2S,1P,1G
- Keyboard for WIN '95 104-K
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- 15"NI.28 SVGA Color Monitor
- 1.44MB Floppy Drive
- High Speed I/O Port 2S,1P,1G
- Keyboard for WIN '95 104-K
- Medium Tower Case, 7-Bay
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- 56k Fax/Modem,Plug & Play, V.90 w/Voice Mail,Internet Ready
- 15"NI.28 SVGA Color Monitor,
- 1.44MB Floppy Drive
- High Speed I/O Port 2S,1P,1G
- Keyboard for WIN '95 104-K
- Mini Tower Case, 5-Bay
- PS/2 Intellimouse
- Microsoft® Windows '98 Pre-installed w/Manual,CD
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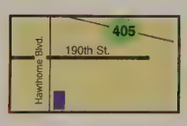


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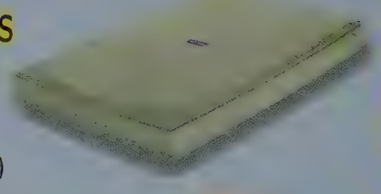

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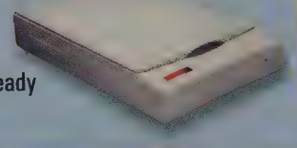

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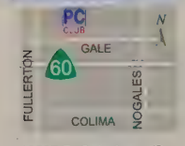


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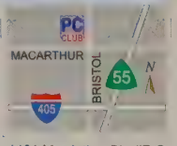


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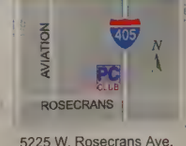


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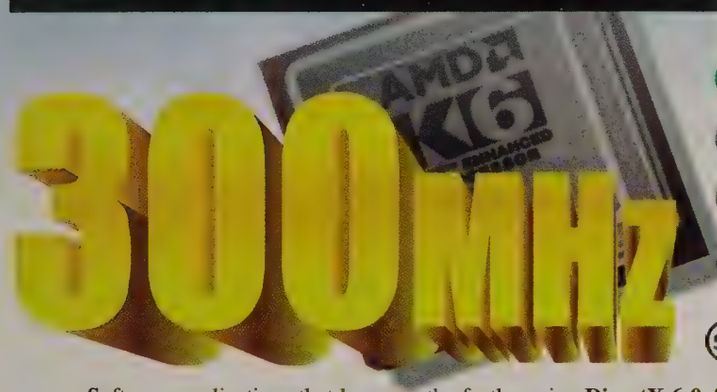


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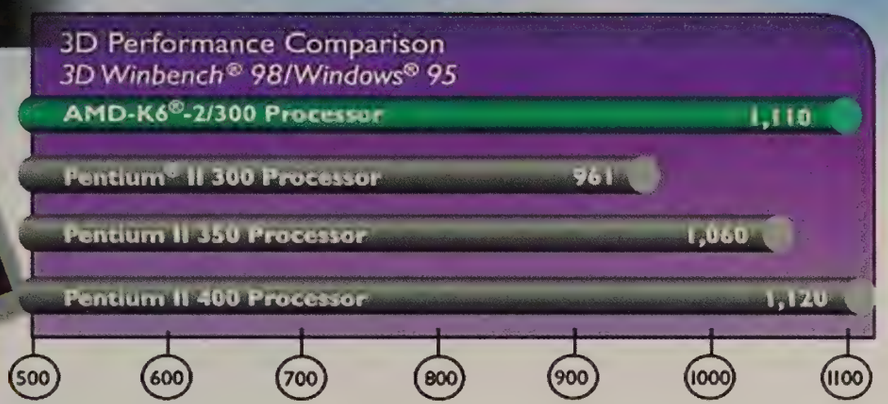


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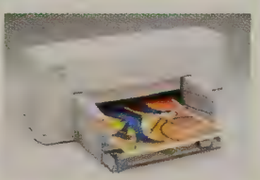

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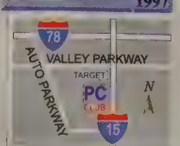


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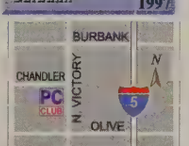


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| G3/250 | 32/2G/20X/12.1STN/56K | 2699 |
| G3/250 | 32/4G/20X/13.3TFT/56K | 3579 |
| G3/250 | 32/4G/20X/14.1TFT/56K | 3899 |
| G3/292 | 64/4G/20X/13.3TFT/56K | 4199 |
| G3/292 | 64/8G/20X/14.1TFT/56K | 4999 |

### POWERBOOKS

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|---|---|---|
| 3400C/240 | 16/3G/12X/MOD | 1999 |
| 3400C/200 | 16/2G/12X/MOD | 1699 |
| 2400C/180 | 16/1.2G | 1379 |
| 1400C/166 | 16/2GIG/8XCD | 1499 |
| 1400C/133 | 16/1GIG/6XCD | 1399 |
| 1400CS/133 | 16/1GIG/CD | 1099 |
| 5300CS/100 | 8/500 | 649* |
| 5300CS/100 | 16/750 | 749* |
| 5300C/100 | 16/750 | 999* |

### APPLE MONITORS

| | |
|---|---|
| Apple MS 15AV | 329 |
| Apple 1710 | 399 |
| Apple 720 17" | 349 |
| Apple 750/750AV 17" | 599/749 |
| Apple Multiscan 850AV 20" | 1099 |

### RASTEROPS

| | |
|---|---|
| SUPERSCAN MC-620 | 459 |
| SUPERSCAN MC-6315 | 599 |
| SUPERSCAN MC-7515 | 799 |
| SUPERSCAN MC-801 | 1099 |
| SUPERSCAN MC-801HR | 1199 |

### GLOBAL VILLAGE

| | |
|---|---|
| Global Village Plat 56K EXT | 149 |
| Global Village Gold II PCM 14.4 | 49 |
| Global Village Gold II 14.4EXT | 49 |
| Global Village 56.6 PCMCIA | 169 |
| Global Village 56.6 ETH/PCM | 269 |

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### GCC TECHNOLOGIES

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|---|---|
| GCC ELITE XL-608 | 1799 |
| GCC ELITE XL-1212 | 1299 |
| GCC ELITE XL-616 | 1699 |
| GCC ELITE XL-808 | 2099 |
| GCC ELITE XL-1208 | 2799 |
| GCC ELITE XL-1208 PLATE MAKER | 3499 |

### HEWLETT PACKARD

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|---|---|
| 5M | 1399 |
| 4000N/NT | 1349/1449 |
| 6MP | 829 |
| 4MV | 1799 |
| Deskjet 890CXI | 479 |
| Deskjet 1600CM | 1499 |

### Quantum

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|---|---|
| AtlasII 2.2GIG SCSI/WIDE 3.5 | 229/265 |
| AtlasII 4.5GIG SCSI/WIDE 3.5 | 345/399 |
| AtlasII 9.1GIG SCSI/WIDE 3.5 | 399/499 |
| Stratus 3.2GIG/4.3GIG | 255/269 |
| Stratus 6.4GIG/8.4GIG | 349/399 |
| ADAPTEC SCSI 2940UW | 279 |

### ViewSonic

| | |
|---|---|
| Q41 14" | 159 |
| Q51/Q53 15" | 179/199 |
| Q71/Q100 | 299/829 |
| E641/E655 | 179/199 |
| V773/V775 17 | 379/429 |
| V95/V115 | 599/949 |
| G771/G773 | 379/439 |
| G775 /G790 | 539/679 |
| P775/PT775/PT771 | 499/549/549 |
| G810/P810 | 979/1079 |
| PT813/P815 | 1249/1249 |
| 29GA | 1649 |
| VIEWSONIC VWPAN VPA138 | 799 |
| VIEWSONIC VWPAN VPA 145 | 1049 |
| VIEWSONIC VWPAN VPA 150 | 1249 |
| PROJECTOR 800 | 3199 |

### SONY

| | |
|---|---|
| Sony 100ES/100GS 15" | 279/329 |
| Sony 200ES/200GS 17" | 479/579 |
| Sony 200PS 17" | 749 |
| Sony 400PS 19" | 879 |
| Sony 300SF 20" | 1079 |
| Sony 20SEII | 1079 |
| Sony 500PS 21" | 1279 |
| Sony W900 | 3199 |

### Seagate

| | |
|---|---|
| Cheetah 4.5GIG SCSI/WIDE | 429/529 |
| Cheetah 9.1GIG SCSI/WIDE | 799/899 |
| Barracuda 2.2GIG SCSI/WIDE | 249/299 |
| Barracuda 4.5GIG SCSI/WIDE | 429/399 |
| Barracuda 9.1GIG SCSI/WIDE | 649/699 |
| Elite 23GIG SCSI/WIDE | 1549/1649 |

### IXMICRO

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|---|---|
| IX3D ULTIMATE REZ 8 MEG | 499 |
| IX3D PRO REZ 4 MEG | 279 |
| IX3D MAC ROCKET | 239 |
| TWIN TURBO 8 MEG PCI | 379 |
| TWIN TURBO 4 MEG PCI | 229 |
| TWIN TURBO 2 MEG PCI | 179 |
| TWIN TURBO TV CARD | 89 |

### UMAX

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|---|---|
| VISTA Astra 610S-Photo Deluxe | 149 |
| VISTA Astra 1200-Photo Deluxe | 249 |
| VISTA Astra 1200-PRO | 449 |
| VISTA Astra POWERLOOKII/III | 1249/CALL |
| VISTA Astra POWERLOOK 3000 | CALL |
| Mirage IISE w/Trans | 3699 |

### EPSON

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|---|---|
| STYLUS COLOR 600/800 | 189/279 |
| STYLUS COLOR 850 | 349 |
| STYLUS PRO-XL | 299* |
| STYLUS PHOTO-700 | 269 |
| STYLUS PHOTO-EX | 469 |
| STYLUS COLOR 3000 | 1629 |
| EXPRESSION/636/EXEC | 729 |
| EXPRESSION/636/ART | 929 |
| EXPRESSION/636/PRO | 1299 |
| EXPRESSION 836XL | 2199 |

### AGFA

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|---|---|
| SNAPSCAN 310 | 149 |
| SNAPSCAN 600 | 299 |
| SNAPSCAN 600 ART LINE | 399 |
| ARCUS II SOLO | 1249 |
| ARCUS II W/FULL PHOTO | 1299 |
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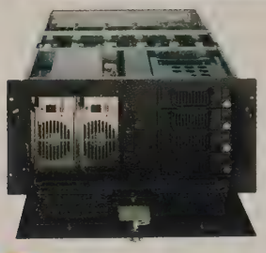

- 8-20 slots PCI/ISA BP support
- Split BP (Up to 4 Systems) support
- AT or ATX motherboard support
- Individual shock mounts for up to eight 5.25" devices
- Open 3.5" drive bay - not shock mounted
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- Hot swap fans & power supplies
- Fault Resilient Features: Temperature Remote Monitoring, Hot Swap Fans, PS & HDD
- 19"(W) x 8.75"(H) x 26"(D)

Rock Solid Fault Resilient Protection

Computer TELEPHONY 1997 PRODUCT OF THE YEAR

## 7000HTR CT/Network Server

- 8 to 20 slot PCI/ISA backplane support
- Split backplane support (up to 4 systems)
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- Individual shock mounts for 8 drives
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*Three Hot Swap Power Supplies*

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- Hot swap removable drives*
- Supports RAID level 0, 1, 3 & 5
- 19"(W) x 7"(H) x 20"(D)

* Optional
† 8 drive bays with single power supplies.
7 drive bays with hot swap power supplies

RAID

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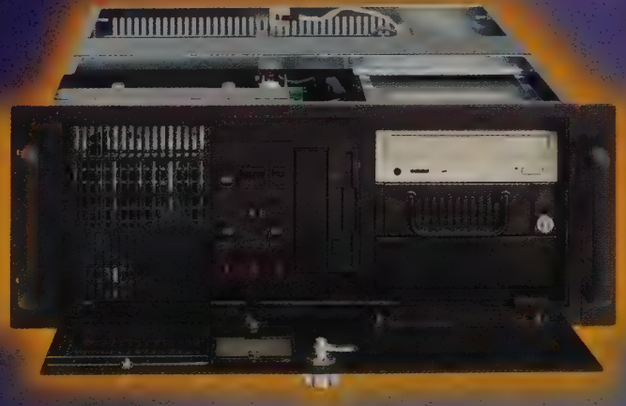
- **OS Compatibility:** Windows NT/95, OS/2 Warp, SCO UNIX, Netware & DOS

## FCC Approved Fault Resilient Compact Enclosure



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4200

- 8 to 14 Slot Backplane Support
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- 19"(W) x 7"(H) x 20"(D)

*Optional

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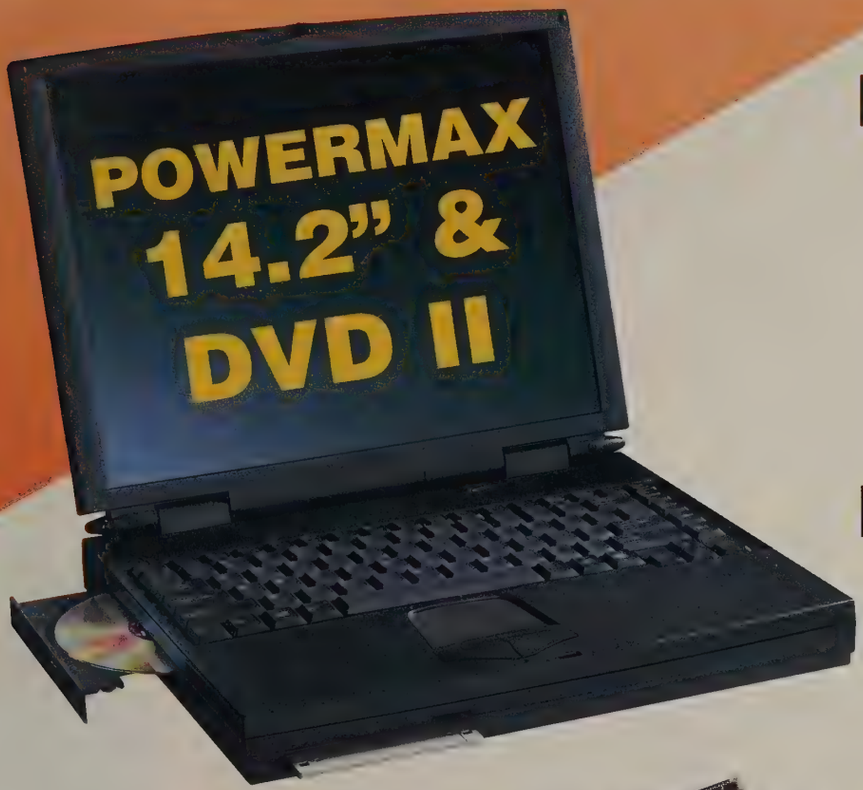
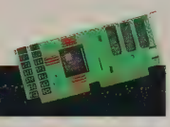



## MONITOR

| | |
|---|---|
| • MAXIMUS ML14, 14" .28DP | $119.00 |
| • MAXIMUS ML15, 15" .27DP | $149.00 |
| • MAXIMUS ML17, 17" .27DP | $229.00 |
| • CYBERVISION C70, 17" | $269.00 |
| • CYBERVISION C72, 17" | $299.00 |
| • CYBERVISION DS86, 17" | $349.00 |
| • CYBERVISION C92, 19" | $559.00 |
| • CYBERVISION C112, 21" | $819.00 |
| • VIEWSONIC GA771, 17" | $445.00 |
| • VIEWSONIC P810, 21" | $1045.00 |

## NETWORK



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| • STANDARD ISA COMBO 10MB ETHERNET | $29.00 |
| • STANDARD PCI COMBO 10MB ETHERNET | $35.00 |
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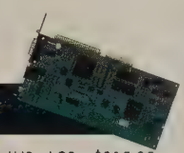

| | |
|---|---|
| • ATI All-In-wonder Pro, 4MB, AGP | $215.95 |
| • ATI Xpert@Play, 8MB, AGP/PCI | $125.95 |
| • ATI Xpert 98, 8MB, AGP | $89.95 |
| • ATI Xpert XL, 4MB, PCI | $69.95 |
| • Intel 740 Graphics Chip 4MB AGP | $75.95 |
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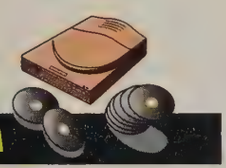
| • Matrox Millenium II, 8MB, AGP | $189.95 |

## CD-ROM



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| • NEC 24X EIDE CD-ROM | $49.00 |
| • NEC 32X EIDE CD-ROM | $59.00 |
| • NEC 24X SCSI CD-ROM | $89.00 |
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intel inside
pentium® II PROCESSOR

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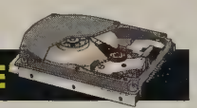
| • 8X32 32MB EDO RAM 72PIN | CALL |
| • 16X32 64MB EDO RAM 72PIN | CALL |
| • 4X64 32MB SDRAM 168PIN | CALL |
| • 8X64 64MB SDRAM 168PIN | CALL |
| • 32MB SDRAM PC100 | CALL |
| • 64MB SDRAM PC100 | CALL |

## HARD DRIVE



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| • QUANTUM 4.3GB ULTRA ATA | $145.00 |
| • QUANTUM 6.4GB ULTRA ATA | $195.00 |
| • QUANTUM 8GB ULTRA ATA | $219.00 |
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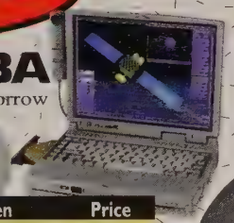

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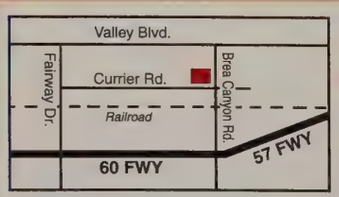


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| ▲ Creative Lab AWE64 Sound | $44 |
| ▲ 32X/100X IDE CD-ROM | $18 |
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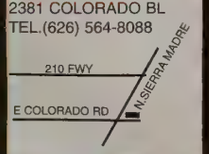


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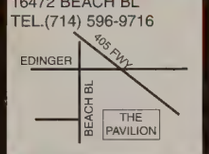


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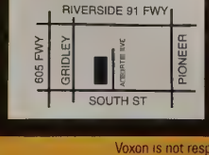


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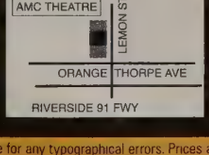


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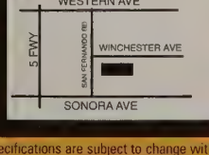


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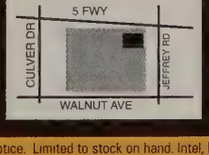


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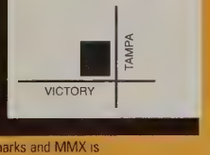


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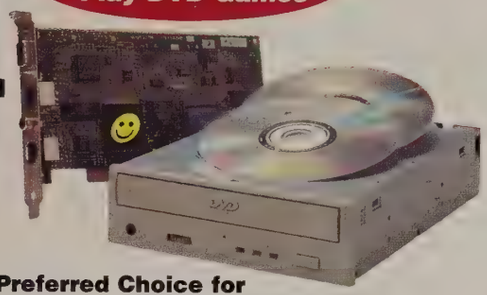

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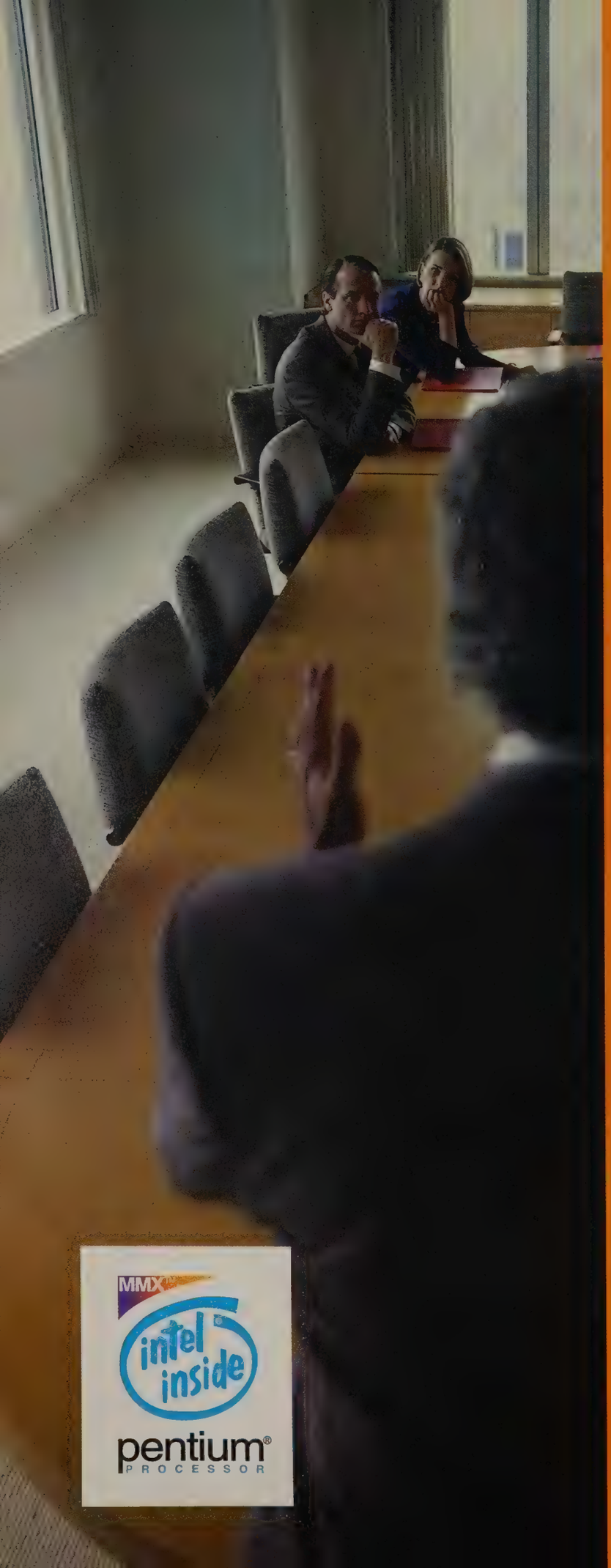


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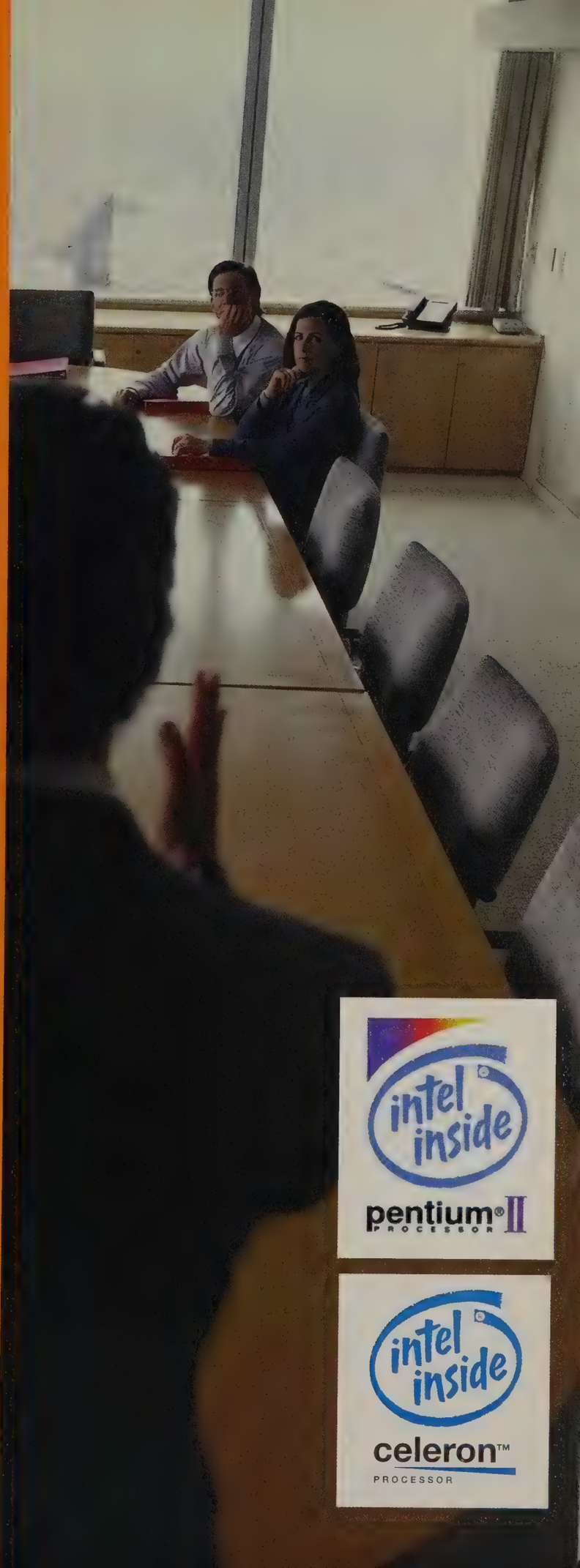

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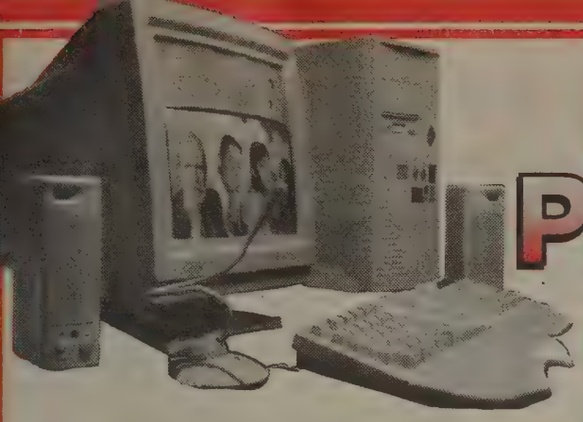

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- Year 2000 Compliance
- New Generation Digital UL230 Watt Power Supply
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- 56K Fax/Modem Voice V90 Upgradable Phone Cable
- 24X Ultra DMA CD-ROM Drive
- Sound Blaster Wave Table Comp, 3D Stereo Sound Card with game
- Power 90-Watt Amplified Stereo Speakers and Microphone
- 15" Digital Monitor NI .28 Tilt and Swivel 1280x1024
- MS Compatible 3-Button Serial Mouse & Pad
- Windows 95 104 Palmrest Keyboard FREE GIFT - $99
- Windows 95 or 98 CD w/Manuals

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- 32MB SDRAM-10ns
- Intel Pentium® II LX Chipset Motherboard 512K Pipeline Cache
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- 56K Fax/Modem Voice V90 Upgradeable, Phone Cable
- 32X Ultra DMA CD-ROM Drive
- Sound Blaster Wave Table Comp, 3D Stereo Sound Card w/game
- Power 90-Watt Amplified Stereo Speakers and Microphone
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- Year 2000 Compliance
- ATX Ergo Design UL230 Watt Power Supply
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- AGP Graphic Accelerator 4MB RAM MPEG w/TV Output
- 56K Fax/Modem Voice V90 Upgradeable, Phone Cable
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- MS Compatible 3-Button Serial Mouse & Pad
- Windows 95 104 Palmrest Keyboard FREE GIFT - $99
- Windows 95 or 98 CD w/Manuals

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Best Buy!

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- ATX ERGO Design UL230 Watt Power Supply
- Intel Pentium II 300 w/Cooling Fan
- 32MB SDRAM-10ns
- Intel Pentium II LX Chipset Motherboard 512K Pipeline Cache
- Enhanced Hard Floppy Ctrl, High Speed 16550A 2S, 1P/USB
- 6.4GB Hard Drive, 3.5 High Density Floppy Drive
- AGP Graphic Accelerator 4MB RAM MPEG w/TV Output
- 56K Fax/Modem Voice V.90 Upgradeable, Phone Cable
- 32X Ultra DMA CD-ROM Drive
- Sound Blaster Wave Table Comp, 3D Stereo Sound Card w/Game
- Power 90 Watt Amplified Stereo Speakers and Microphone
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- MS Compatible 3-Button Serial Mouse & Pad
- Windows 95 104 Palmrest Keyboard FREE GIFT $99
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- AGP Graphic Accelerator 4MB RAM MPEG w/TV Output
- 56K Fax/Modem Voice V90 Upgradeable, Phone Cable
- 32X Ultra DMA CD-ROM Drive
- Sound Blaster Wave Table Comp, 3D Stereo Sound Card w/game
- Power 240-Watt Amplified Stereo Speakers and Microphone
- 17" Multiscan Monitor NI LR .27 Tilt Swivel 1280x1024
- MS Compatible 3-Button Serial Mouse & Pad
- Windows 95 104 Palmrest Keyboard FREE GIFT - $99
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## Magnum³ 400

- ATX Super Ergo Design UL 300 Watt Power Supply
- Intel Pentium® II 400 w/Cooling Fan
- 64MB SDRAM-10ns
- Intel Pentium® II BX Chipset Motherboard 512K Pipeline Cache
- Enhanced Hard Floppy Ctrl, High Speed 16550A 2S, 1P/USB
- 8.4GB Ultra Hard Drive, 3.5 High Density Floppy Drive
- AGP Graphic Accelerator 8MB RAM MPEG
- 56K Fax/Modem Voice V90 Phone Cable
- 32X Ultra DMA CD-ROM Drive
- Sound Blaster Wave Table 3D Stereo Sound Card w/game
- Power 240 Watt Amplified Stereo Speakers and Microphone
- 17" Multiscan Monitor NI LR .27dpi Tilt Swivel 1280x1024
- MS Comp 3-Button Serial Mouse & Pad
- Windows 95 or 98 CD w/Manuals

ONLY $1899

### SCANNER

| | |
|---|---|
| 30-Bit Full Page Color OCR | $129 |
| Microtek Scanmaker E3 | $145 |
| Microtek Scanmaker E6 | $289 |
| Microtek Scanmaker E6 Pro | $530 |

### CASES/POWER SUPPLY

| | |
|---|---|
| New Generation Digital 230 Watt | $39 |
| ATX Ergo Whale 230 Watt | $69 |
| ATX Ergo Whale Super Full 300 Watt | $89 |
| Sliding Door Super 250 Watt | $69 |

### SYSTEM BOARDS

| | |
|---|---|
| Intel Triton 512K TX | $89 |
| Intel Pentium® II 512K 440LX Chipset | $89 |
| Intel Pentium® II 512K 100 Bus | $169 |
| Tyan Thunder Dual PII SCSI | $469 |
| ASUS Dual PII LX, SCSI | $399 |

### BACK UP

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|---|---|
| Iomega Zip in 100 w/Zip Disk | $89 |
| Iomega Jaz One Gig w/Cartridge | $265 |
| Seagate 8 Gig Tape Store | $229 |

### MONITORS

| | |
|---|---|
| 17" SVGA Digital Color 1280X1024 .28 | $295 |
| 15" SVGA Digital Color 1280X1024 .28 | $175 |
| Viewsonic P775 17" 1600X1280 .25 | $485 |
| Viewsonic PT775 17" 1600X1280 .25 | $669 |

### KEYBOARD

| | |
|---|---|
| W95 104 Palm Rest | $19 |
| Color Coded W95 104 Palm Rest | $29 |
| MS Natural Elite Ergo | $45 |
| Internet Microphone Built-In | $49 |

### MODEM

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|---|---|
| 33.6K Fax/Modem w/Voice | $49 |
| 56K Fax/Modem w/Voice | $59 |
| USR 56K Fax/Modem w/Voice | $99 |
| USR V.90 Fax/Modem w/Voice | $139 |

### VIDEO/TV CARD

| | |
|---|---|
| S3 2MB PCI 64 | $35 |
| AGP Graphic Accelarator 4MB RAM MPEG w/TV OUTPUT | $59 |
| Diamond Viper 4MB SGRAM | $125 |

### HARD DRIVE/FLOPPY DRIVE

| | |
|---|---|
| Seagate 2.1GB | $145 |
| Seagate 4.3GB | $159 |
| Western Digital 4.3GB | $179 |
| IBM 8.4GB Ultra ATA | $315 |
| Quantum 12GB Ultra ATA | $360 |
| Seagate 9.1GB UW Cheetah | $899 |
| Teac 1.44MB Floppy | $25 |

### SPEAKERS

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| 90 Watt Amplified | $18 |
| 240 Watt Amplified | $29 |
| Super Woofer w/5 Speakers | $69 |

### CD-ROM/BUNDLE

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|---|---|
| 24X, Sound, Amplified Speakers | $89 |
| 32X, Sound, Amplified Speakers | $99 |
| 24X CD-ROM | $59 |
| 32X CD-ROM | $69 |
| DVD CD-ROM, Sound, Amplified Speakers | $199 |

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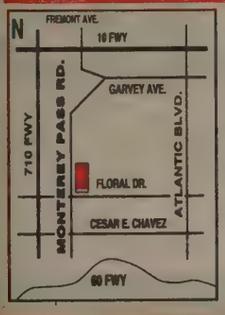


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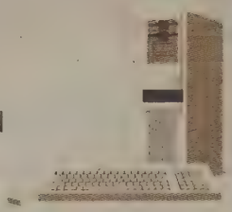
## MULTI MEDIA SYSTEM SPECIAL

### Cyrix M2-233

- 32 MB SDRAM
- 3.2 GB Hard Drive
- TX-Pro Chipset
- 2MB Video Card
- 32x CD-ROM
- 16 bit Sound Card
- 104 Keyboard
- Serial Mouse
- Floppy
- Case



**$349.99**

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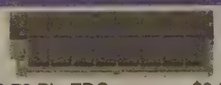

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| 8MB 72 Pin EDO | $9.99 |
| 16MB 72PinEDO | $13.99 |
| 32MB 72Pin EDO | $24.99 |
| 64MB 72 Pin EDO | CALL |
| 4MB SIMMS 30Pin | $7.99 |
| 32MB 168PinDIMM | $27.99 |
| 64MB 168PinDIMM | $69.99 |
| 128MB 168PinDIMM | $129.99 |
| 64MB SDRAM | |
| 100 MHz Bus | $79.99 |
| 128MB SDRAM | |
| 100 MHz Bus | $159.99 |

Microsoft Windows98 $99 extra with purchase of any system

## HARD DRIVES

| Manufacturer | Model | Capacity | Access Time | Cache Buffer | Warranty | Price |
|---|---|---|---|---|---|---|
| Maxtor | MX83249D4 | 3.2 GB ULTRA | 10MS | 256K | 3 years | $124.99 |
| | MX86480D8 | 6.4 GB ULTRA | 10MS | 256K | 3 years | $164.99 |
| | MX88480D8 | 8.4 GB ULTRA | 9.7MS | 256K | 3 years | $224.99 |
| | MX911527D8 | 11.4 GB ULTRA | 9 MS | 256K | 3 years | $279.99 |
| WESTERN DIGITAL | WDAC33200 | 3.2 GB ULTRA | 10 MS | 256K | 3 years | $129.99 |
| | WDAC36430 | 4.3 GB ULTRA | 10 MS | 256K | 3 years | $139.99 |
| | WDAC36400 | 6.4 GB ULTRA | 10 MS | 256K | 3 years | $179.99 |
| IBM | DHEA36480 | 6.4 GB ULTRA | 9.5 MS | 512K | 3 years | $169.99 |
| | DHEA38400 | 8.4 GB ULTRA | 9.5 MS | 512K | 3 years | $229.99 |
| | DTTA371010 | 10 GB ULTRA | 7.5 MS 7200 RPM | | 3 years | $399.99 |
| | DTTA341440 | 14 GB ULTRA | 7.5 MS 7200 RPM | | 3 years | $599.99 |
| | DCAS34330/S | 4.3 GB SCSI 68 PIN | 8.5 MS | 512K | 5 years | $254.99 |
| | DDRS34560 | 4.5 GB UW SCSI | 7.5 MS 7200 RPM | 512K | 5 years | $289.99 |
| | DDRS39130 | 9.1 GB UW SCSI | 7.5 MS 7200 RPM | 1024K | 5 years | $569.99 |

## Pentium II 400 Multimedia System

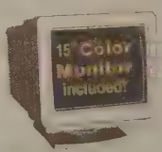
- SuperMicro P6SBA, 100 MHz Motherboard
- Intel Pentium II 400 CPU, 512K L2 Cache
- 64 MB SDRAM, 100 MHz Bus
- 6.4 GB Ultra DMA EIDE Hard Drive
- 32x CD-ROM
- 32 Bit PCI Sound Card
- Matrox G100 8MB AGP Video Card
- ATX- Mid Tower Case w/ 230w PS
- Amplified Speakers

**$1289.00**

Above Configurations w/ Pentium II-350 CPU ..... **$1089.00**

## Multimedia Systems

- Intel Triton II 430TX Chipset Motherboard w/ 512k pipeline cache supports Ultra DMA hard drive, up to 33 MB/S x-fer
- 32 MB SDRAM expandable to 128 MB,
- 3.2 GB EIDE mode 4 hard drive, Ultra DMA
- Built-in EIDE controller supports four HDDs & two FDDs
- 2 hi-speed serial pods, 1 enhanced parallel
- 1.44 MB Floppy disk drive
- Trident 9685 w/4MB, 64 bit 3D accelerator
- 32X EIDE CD ROM, 16 bit.sound card
- Amplified Speakers
- Deluxe Tower Case w/ 230W Power supply
- 104 Win95 keyboard,
- Microsoft compatible 3 button mouse
- 15" SVGA 0.28 DP 1280x1024 Non-Interlaced Monitor

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intel inside

**Pentium™**

| | |
|---|---|
| Pentium MMX 200 | $579 |
| Pentium MMX 233 | $619 |

**AMD**

| | |
|---|---|
| MMX K6-233 | $549 |
| MMX K6-266 | $579 |
| MMX K6-300 | $609 |
| AMD 3D K6-2 • 300 | $659 |

the highest performance processor

**Cyrix 6x86**

| | |
|---|---|
| M2 - 233C | $529 |
| M2 - 266 | $559 |
| M2 - 300C | $579 |

## MULTIMEDIA

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|---|---|---|---|
| 32 BIT 3D - PNP PCI Sound Card | $24.99 | Sony 2x8 IDE CD-Recorder | $289.99 |
| Creative Labs 16 bit PnP | $29.99 | Creative Lab Encore DVD Kit | $199.99 |
| Creative Labs AWE 64 | $58.99 | Panasonic CW7502, 4x write/8x read CD recorder w/ Gear Software & 2 blank CD,AHA 1505 SCSI Card | $379.99 |
| Creative Labs AWE 64 Gold | $129.99 | | |
| 24X EIDE CD ROM | $44.99 | | |
| Toshiba 32x EIDE CD-ROM | $64.99 | Diamond DVD Kit with Toshiba DVD ROM, MPEG II/AC-3 decoder | $209.99 |
| 32x CD-ROM | $49.99 | | |

## Multimedia Systems

- Motherboard with Intel 440LX Chipset
- **32 MB SDRAM**
- **4.3 GB Ultra DMA EIDE hard drive**
- ATX Tower Case W/PS
- Trident 9750 4MB AGP
- 1.44 MB floppy disk drive
- 32x EIDE CD ROM
- 16 bit sound card
- Amplified Speakers
- 104 keyboard
- Serial mouse

Monitor not included

intel inside

**Pentium II 333 MHz $909**
**Pentium II 300 MHz $719**
**Pentium II 266 MHz $619**
**Pentium II 233 MHz $589**

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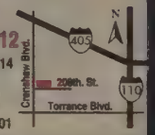


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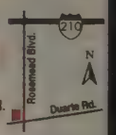


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24x EIDE CD ROM

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- SVGA 0.28
- 1280x1024,

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- Max resolution 4800 DPI
- Single pass. parallel I/F
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## Panasonic Panasync S70
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- On-Screen Display, Plug & Play
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| G773 17" .26dp, 1280x1024 | $419.99 |
| P775 17" .25 dp, Onview | $439.99 |
| PT 775 17" .25dp 1600x1280@76Hz | $619.99 |
| G790 19" 0.26dp 1600x1280 | $679.99 |
| G 810 21" .25 dp PnP | $914.99 |

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| DJ700 17" 0.26 dp FST 1280 x 1024 70KHz. | $309.99 |
| DX500T 15" 0.25 dp 1280 x 1024 65KHz. | $209.99 |
| DX700T 17" 0.25 dp 1280 x 1024 70KHz. | $339.99 |
| DJ800 19" 0.25dp N.I. | $514.99 |

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| Sony 100 ES, 15" 0.25AG, 1280x1024 | $259.99 |
| Sony 100 GS, 15" 0.25AG, Speaker | $309.99 |
| Sony 200 ES, 17" 0.25AG,1280x1024 | $459.99 |
| Sony 200 GS, 17" 0.25AG, Speaker | $569.99 |

## Panasonic

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| S15 15" 0.27dp 1280 x 1024 | $229.99 |
| S70 17" 0.27dp 1280 x 1024 | $349.99 |
| **E110 21"0.25dp 1600 x 1280** | **$899.99** |

## Shamrock

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| C409A 14", 0.28 NI, 1024x768 | $119.99 |
| C509L 15", 0.28 NI, | $134.99 |
| C706L 17", 0.28 NI, 1280x1024 | $234.99 |
| C703LA 17", 0.26 NI, 1280x1024 | $249.99 |

## CPU

| | |
|---|---|
| Pentium 233 MMX | $112.99 |
| Pentium II 233 MMX | $164.99 |
| Pentium II 266 MMX | $189.99 |
| Pentium II 300 MMX | $289.99 |
| Pentium II 333 MMX | $384.99 |
| Pentium II 350 MMX | $489.99 |
| Pentium II 400 MMX | $684.99 |
| AMD K6-233 MMX | $74.99 |
| AMD K6-266 MMX | $99.99 |
| AMD K6-300 MMX | $139.99 |
| AMD 3D K6-300 | $169.99 |
| Cyrix M2/6X86-PR266C | $84.99 |
| Cyrix M2-300 | $99.99 |
| Cyrix M2/6X86-PR233MMX | $57.99 |

CPU PRICES ARE VOLATILE, PLEASE CALL TO CHECK FOR CURRENT PRICES AND AVAILABILITY.

## MOTHERBOARDS

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| TX-PRO II 512K w/ sound and video | $59.99 |
| Triton 430TX 512K 3ISA/ 4PCI W/ sound | $59.99 |
| 440LX 3ISA/ 4PCI/ 1 AGP ATX | $79.99 |
| Intel Atlanta AL440X w/ sound ATX | $159.99 |
| Intel Seattle SE440BX w/ PCI sound ATX | $189.99 |
| ASUS P2L97 440LX ATX | $129.99 |
| ASUS PB2 440BX ATX | $159.99 |
| Tyan Titan 430TX ATX | $84.99 |
| Tyan Tiger 440LX ATX | $124.99 |
| Tyan Tsunami 1846S 440BX ATX | $134.99 |
| SuperMicro P6SLA 440LX ATX | $114.99 |
| SuperMicro P6SBA 440BX ATX | $134.99 |

## PRINTERS

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| HP Deskjet 670 | $199.99 |
| HP Deskjet 692C | $229.99 |
| HP Deskjet 720C | $279.99 |
| HP 6 Lxi Laser Printer | $369.99 |
| Hp 6 Pxi Laser Printer | $709.99 |
| Epson Stylus 400 | $144.99 |
| Epson Stylus 600 | $184.99 |
| Epson Stylus 800 | $269.99 |
| Epson Stylus 850 | $389.99 |

## FAX/MODEM

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| PCMCIA 33.6k fax/modem | $69.99 |
| PCMCIA 56.6k fax/modem | $89.99 |
| Voice Fax/Modem 33.6k internal | $28.99 |
| Voice Fax/Modem 56k internal v.90 | $49.99 |
| Voice Fax/Modem 56k, X2 v.90 | $53.99 |

US Robotics

| | |
|---|---|
| Sportster 56k fax/modem. int. | $69.99 |
| Sportster 56k Voice fax/modem. int | $79.99 |
| Sportster 56k Voice fax/modem. ext. | $169.99 |

Please call for prices on USR v.90 modems

## ACCESSORIES

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| Mini/Mid Tower case w/ps. | $19.99/ $29.99 |
| Full Tower/ Desktop Case w/ps | $34.99 |
| ATX Mid Tower Case w/PS | $44.99 |
| 1.44MB FD 3 1/2" | $16.99 |
| 120MB FD 3 1/2" | $79.99 |
| Keyboard 104 Win95 | $7.99 |
| Keyboard Focus 2001,WIN95 | $24.99 |
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| Mouse Serial | $4.99 |
| Microsoft Ergonomic Mouse | $24.99 |
| Adaptec 2940UW PCI SCSI Cntrlr | $179.99 |
| 420VA UPS | $89.99 |
| 650VA UPS | $169.99 |
| 1000VA UPS | $199.99 |

## TAPE BACKUP

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| | |
|---|---|
| Seagate TR4 4/ 8GB w/Tape | $199.99 |
| Colorado TRAVAN 3 GB TR 3 w/ Tape | $149.99 |
| Seagate TR4 4/8GB SCSI w/Tape | $249.99 |

IOMEGA

| | |
|---|---|
| Iomega ATAPI Zip int | $69.99 |
| Iomega parallel port Zip drive | $124.99 |
| Jaz 1.0 GB SCSI drive int. | $249.99 |
| Jaz 1.0 GB SCSI drive ext. | CALL |

## NET WORKING

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|---|---|
| ISA/PCI Network card | $11.99/$14.99 |
| PCI Fast Ethernet Adapter10/ 100 MB/S. | $19.99 |
| 3C905 Fast Etherlink PCI 10/ 100 | $54.99 |
| 8 Port Ethernet hub | $39.99 |
| 16 Port Ethernet hub | $84.99 |
| TX 100 MB/S Fast Ethernet 8 Port Hub | $179.99 |
| 3 COM 12 Port Ethernet hub 100 MB/S. | $499 |
| Intel 12 Port Ethernet hub 100 MB/S | CALL |

## SCANNERS

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|---|---|
| Scanpaq SQ2030, 30bit, parallel I/F+SW | $49.99* |
| Scanpaq SQ4836T, 36bit, parallel I/F+SW | $109.99* |
| Scanpaq SQ3036TU, 36bit, parallel I/F+SW, USB+SW | $169.99 |
| Scanpaq SQ9636TS, 36bit, SCSI I/F+SW | $199.99 |
| HP 5100C color scanner | $269.99 |
| HP 6100C color scanner | $689.99 |

*After $30 manufacterer mail-in rebate

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|---|---|
| SVGA 14" .28 NI | $104.99 |
| SVGA 15" .28 NI | $124.99 |
| SVGA 17" .28 NI | $224.99 |

## VIDEO CARDS

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|---|---|
| Diamond Stealth 3D 2000 Pro PCI 4MB. | $54.99 |
| Diamond Fire GL 1000 Pro 4/ 8MB AGP. | $134.99/$164.99 |
| Diamond Viper 330 AGP, 4MB SGRAM | $76.99 |
| Matrox G100, 8MB SDRAM | $69.99 |
| Trident 9685 4MB PCT | $29.99 |
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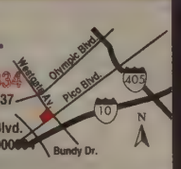


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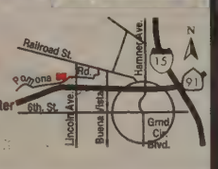


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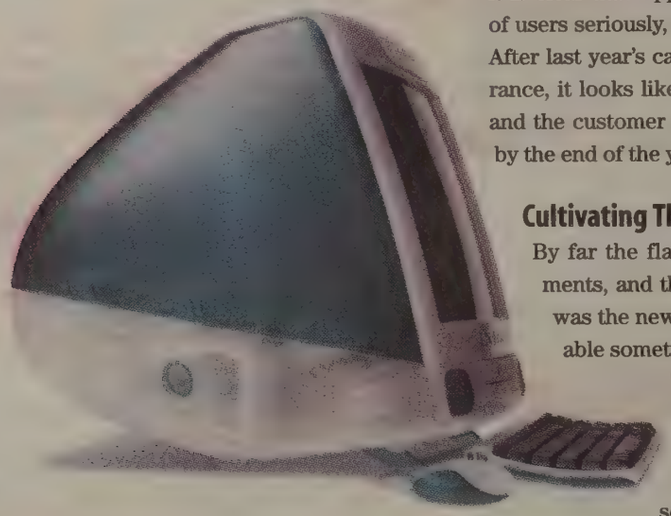
# New Hope For Apple

## *It's Finally Listening To Its Markets*

*By Paul Hoffman*

*After last year's campaign of arrogance and ignorance, it looks like the "old Apple" may be back, and the customer is on top. We'll certainly know by the end of the year.*



The non-stop talk about Department of Justice antitrust lawsuits has drowned out one of the more interesting recent stories—namely that the whole world doesn't revolve around Microsoft and Intel.

In the last few weeks, Apple made three major announcements that have turned heads and given many people the feeling that Apple isn't on the way out. Even ex-supporters who gave up on Apple last year are now feeling like the company may regain its position in the personal computer world.

The three announcements were for new laptops, a new low-end desktop system, and a new roadmap for the Mac OS. Taking all this together, it is clear that Apple has taken the mass exodus of users seriously, and has gone back to its roots. After last year's campaign of arrogance and ignorance, it looks like the "old Apple" may be back, and the customer is on top. We'll certainly know by the end of the year.

### Cultivating The Wow Factor

By far the flashiest of the three announcements, and the one that got the most press, was the new iMac system that will be available sometime in August.

The $1300 system includes a built-in monitor, and will compete well with many of the low-end PC systems being sold. Apple went all-out on making the design intriguing and fun. The entire case is translucent, letting you peer into the guts of the computer whenever you feel like it. It's not like there's much to see in there, but many entry-level buyers do in fact find that looking inside the computer reduces the mystery.

The second part of the design that caught many people by surprise is the shape. It looks sort of like a gumdrop with a recessed handle. Like the first Macintosh, the iMac is much smaller than typical PCs and is quite easy to move around. Computer users who didn't want to lose a significant part of their desk space have to choose between a tower-shaped PC that sits under the desk or a laptop. The iMac is by no means tiny, but certainly will not force many people to find room for it in their homes.

The iMac is much more than just a semi-clear art piece, however. Apple has gotten rid of a piece of hardware that everyone used to think was inherently part of a computer: the floppy drive. The iMac comes with a CD-ROM drive, a modem, and a fast Ethernet connect built-in, but no floppy drive. Apple's reasoning for this is that almost no software comes on floppies anymore, and most people will want to back up over the Internet. Even if Apple is wrong, there will be external floppy drives for sale.

The other somewhat revolutionary change is that this is the first Macintosh in over a decade with no SCSI port. Instead, Apple has based the iMac on the Universal Serial Bus, or USB. Many new PCs have USB ports, but there are almost no devices for them on the market. However, Apple's move will probably get USB-based hard drives on the market quickly. The iMac also has no serial port: all expansion devices, such as printers, have to be based on USB.

If there's anything that's going to kill the iMac, it's the lack of connection to today's printers. Apple has always been at a disadvantage by forcing its users to buy printers that used the AppleTalk network instead of the typical parallel port used on PCs. Now forcing another change, to USB, could push printer makers over the edge. On the other hand, it is likely that some printer makers were planning on USB-based printers anyway, since they can run much faster than parallel-port printers. However, it remains to be seen how many printer makers will have USB printers ready when the iMac ships in August.

### Retro Is In, Again

In some ways, the iMac can be compared to the new Volkswagen Beetle, and it wouldn't be surprising if Apple ran ads with nostalgic overtones. The round edges everywhere, the stylish

colors, and the fact that Apple had almost gone the way of old VWs make the comparisons all the more apt.

Like the first Macintoshes, the iMac is an all-in-one system aimed at low-end users who don't want to fight with the hardware and software hassles of updating Intel-based systems, whose architecture is now seventeen years old. Upgrading PC systems with things as simple as a sound card or additional RAM is still incredibly painful. The new Mac comes with almost everything many users would want pre-installed, and most hardware upgrades will be through the USB ports, which should make adding anything quite painless, as long as hardware vendors make what you want with a USB interface.

*In some ways, the iMac can be compared to the new Volkswagen Beetle, and it wouldn't be surprising if Apple ran ads with nostalgic overtones.*

The iMac will also come with a full complement of low-end office and Internet software. More important to users, however, is that it still runs Mac OS, which is still more stable than Windows 95. In a world where even Microsoft advertises Windows 98 as "crashes less often than Windows 95," it is no wonder that current Mac users are Apple's best salespeople for new customers.

### Better Directions For Mac OS

Soon after the announcement of the iMac, Apple revealed its new development plans for the Macintosh operating system.

Apple's previous plan, to move all high-end users to a new operating system called Rhapsody, had lost Apple many of its important developers because changing to Rhapsody would entail rewriting most of their programs.

The new plan kills Rhapsody off after the first version is released this fall. In its place, high-end users will get a somewhat new OS next year, called Mac OS X (that's "X" for "ten"). Mac OS X is Apple's admission that Rhapsody was too unpopular and was losing Apple its second most valuable resource (after customers): developers. The new OS will require programmers to modify very little of their current programs in order to get all the benefits of the new OS.

Mac OS X will essentially combine the stability and speed of Rhapsody with Mac OS 8 systems calls. Developers who move their programs to Mac OS X will get features that Apple has been promising for a long time: virtual memory, protection from other programs, multi-threading, and even support for multiple CPUs. Basically, these features promise users more stability, at a price of needing more RAM and faster CPUs. Apple said that only Macintoshes with the new PowerPC G3 CPUs will run Mac OS X.

Apple also promised to keep developing Mac OS 8 for at least the next few years. Version 8.5 is expected this fall, and versions beyond that are already being planned for next year. Apple said it would release new versions of Mac OS 8 every six months, although, like Microsoft, Apple pretty much always misses its dates for operating system releases. Apple's renewed focus on its

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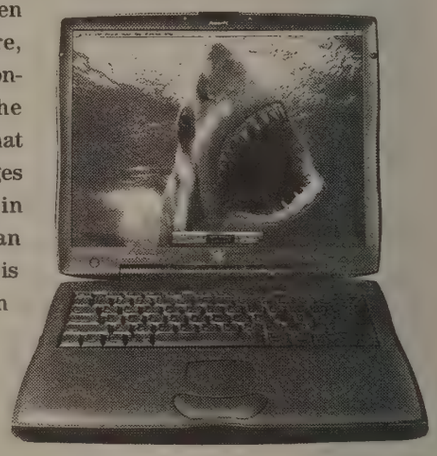
current customers makes it likely that Apple will keep Mac OS 8 alive for at least two more years.

Mac OS 8.5 will include many features that people expected in Mac OS 8.0, which was released last year. For example, the Open and Save dialog boxes will (finally!) be replaced with a much more useful interface based on the rest of the Mac look and feel. There will also be "interface themes" that let you change many of the ways the Mac looks. Novice users seem to love themes, as evidenced by the thousands that have been created for Windows 95.

*In a world where even Microsoft advertises Windows 98 as "crashes less often than Windows 95," it's no wonder current Mac users are Apple's best salespeople.*



Apple will also revise its Open Transport networking software, which is the method used to connect Macs to LANs and the Internet. (It should be noted that Microsoft made almost no changes to its networking software in Windows 98, and setting up an Internet account in Windows 98 is just as messy as it was in Windows 95.)

More important to many users will be speed improvements in Mac OS 8.5, mostly due to making more of the source code PowerPC native. Although Apple's new systems are incredibly fast, older PowerPC systems have lagged behind due to Apple's not converting all of the Mac OS to PowerPC source code. There will still be some 68000-based code left in Mac OS 8.5, but the new code in the QuickDraw library will make graphics much faster, particularly on early PowerPC systems.

### Renewed Hope For Customers

Apple's third announcement, of a set of high-priced laptops, was nothing to cheer about, unless you feel like dropping over $3500. These systems are priced at or above competing PC systems. This news was so unimportant, it barely got mentioned after the iMac announcement.

But, together, the iMac and Mac OS X announcements have given Apple's loyal customers something to hold on to. Even more important, it gives Apple something to attract the interest of new users. They particularly need this after losing so many customers last year, especially after Apple jerked the rug out from under the Mac clone market. Now, with Windows 98 looking like a minor revision to Windows 95, and nothing exciting in the PC hardware business coming around, Apple has another lease on life. They could even regain their market share, something that six months ago seemed all but impossible. ◆

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# MicroTimes Stock Index Heads Sharply Higher

| EXCH | COMPANY | TICKER SYMBOL | CLOSING PRICE 05/29/98 | CLOSING PRICE 06/25/98 | NET CHANGE IN PERIOD | PERCENT CHANGE IN PERIOD | P/E RATIO | ANNUAL DIVIDEND RATE | ANNUAL DIVIDEND YIELD | ANNUAL HIGH | ANNUAL LOW |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | **SOFTWARE** | | | | | | | | | | |
| NAS | Adobe | ADBE | 39.94 | 44.38 | 4.44 | 11.11 | 20 | 0.20 | 0.45 | 53.13 | 33.50 |
| NAS | Autodesk | ADSK | 42.50 | 39.19 | -3.31 | -7.79 | 19 | 0.20 | 0.51 | 51.13 | 30.50 |
| NAS | Broderbund | BROD | 16.00 | 20.69 | 4.69 | 29.30 | - | 0.00 | 0.00 | 37.75 | 15.25 |
| NAS | Informix (L) | IFMX | 6.81 | 7.84 | 1.03 | 15.14 | - | 0.00 | 0.00 | 12.44 | 4.00 |
| NAS | Inprise Corp. | INPR | 8.31 | 7.19 | -1.13 | -13.53 | - | 0.00 | 0.00 | 12.19 | 5.88 |
| NAS | Macromedia (H) | MACR | 15.84 | 18.56 | 2.72 | 17.16 | - | 0.00 | 0.00 | 18.69 | 7.13 |
| NAS | Microsoft (H) | MSFT | 84.81 | 101.56 | 16.75 | 19.75 | 65 | 0.00 | 0.00 | 105.13 | 59.00 |
| NAS | Novell (H) | NOVL | 10.50 | 12.69 | 2.19 | 20.83 | - | 0.00 | 0.00 | 13.44 | 6.28 |
| NAS | Oracle | ORCL | 23.63 | 24.69 | 1.06 | 4.50 | 30 | 0.00 | 0.00 | 42.13 | 17.75 |
| NAS | Symantec | SYMC | 23.88 | 25.88 | 2.00 | 8.38 | 18 | 0.00 | 0.00 | 32.63 | 17.88 |
| | **HARDWARE** | | | | | | | | | | |
| NAS | Apple | AAPL | 26.63 | 28.56 | 1.94 | 7.28 | - | 0.00 | 0.00 | 31.63 | 12.75 |
| NYS | Compaq | CPQ | 27.38 | 29.13 | 1.75 | 6.39 | 31 | 0.10 | 0.34 | 39.75 | 19.63 |
| NAS | Dell | DELL | 82.41 | 92.00 | 9.59 | 11.64 | 63 | 0.00 | 0.00 | 98.50 | 28.06 |
| NYS | Gateway 2000 | GTW | 45.06 | 48.56 | 3.50 | 7.77 | 65 | 0.00 | 0.00 | 59.25 | 25.06 |
| NYS | Hewlett-Packard | HWP | 62.31 | 60.50 | -1.81 | -2.91 | 21 | 0.60 | 0.99 | 82.38 | 53.63 |
| NYS | IBM | IBM | 117.50 | 112.44 | -5.06 | -4.31 | 19 | 0.90 | 0.80 | 129.31 | 88.63 |
| NYS | Silicon Graphics | SGI | 12.00 | 11.94 | -0.06 | -0.52 | - | 0.00 | 0.00 | 30.31 | 10.94 |
| NAS | Sun Microsystems | SUNW | 40.06 | 43.94 | 3.88 | 9.67 | 24 | 0.00 | 0.00 | 53.31 | 30.38 |
| NYS | Tandy (H) | TAN | 44.25 | 53.81 | 9.56 | 21.61 | 31 | 0.40 | 0.74 | 53.81 | 26.31 |
| NYS | Xerox | XRX | 102.88 | 101.50 | -1.38 | -1.34 | 28 | 1.40 | 1.38 | 115.00 | 66.19 |
| Note: Digital Equipment merged with Compaq. | | | | | | | | | | | |
| | **CPUs** | | | | | | | | | | |
| NYS | Advanced Micro Devices (L) | AMD | 19.56 | 18.06 | -1.50 | -7.67 | - | 0.00 | 0.00 | 42.75 | 16.38 |
| NYS | Cypress Semiconductor | CY | 8.56 | 7.94 | -0.63 | -7.30 | - | 0.00 | 0.00 | 18.94 | 7.38 |
| NAS | Intel (L) | INTC | 71.44 | 75.63 | 4.19 | 5.86 | 22 | 0.10 | 0.13 | 102.00 | 65.66 |
| NYS | LSI Logic | LSI | 21.31 | 23.69 | 2.38 | 11.14 | 22 | 0.00 | 0.00 | 36.75 | 18.63 |
| NYS | Motorola (L) | MOT | 53.00 | 52.94 | -0.06 | -0.12 | 31 | 0.50 | 0.94 | 90.50 | 48.56 |
| | **COMMUNICATIONS** | | | | | | | | | | |
| NAS | 3Com (L) | COMS | 25.38 | 31.50 | 6.13 | 24.14 | 51 | 0.00 | 0.00 | 59.69 | 22.94 |
| NYS | AT&T | T | 60.88 | 58.38 | -2.50 | -4.11 | 20 | 1.30 | 2.23 | 68.50 | 34.00 |
| NYS | BellSouth Corp. (H) | BLS | 64.50 | 67.56 | 3.06 | 4.75 | 19 | 1.40 | 2.07 | 69.50 | 43.31 |
| NAS | Cisco (H) | CSCO | 75.63 | 87.06 | 11.44 | 15.12 | 92 | 0.00 | 0.00 | 89.44 | 43.38 |
| NAS | MCI (H) | MCIC | 53.47 | 57.25 | 3.78 | 7.07 | - | 0.10 | 0.17 | 58.00 | 27.31 |
| NYS | Northern Telecom | NT | 64.00 | 56.25 | -7.75 | -12.11 | 46 | 0.30 | 0.53 | 69.25 | 39.69 |
| | **INTERNET** | | | | | | | | | | |
| NAS | EarthLink (H) | ELNK | 54.50 | 72.25 | 17.75 | 32.57 | - | 0.00 | 0.00 | 78.00 | 10.00 |
| NAS | Netscape | NSCP | 24.50 | 27.19 | 2.69 | 10.97 | - | 0.00 | 0.00 | 49.50 | 14.88 |
| NAS | Yahoo (H) | YHOO | 109.50 | 152.25 | 42.75 | 39.04 | - | 0.00 | 0.00 | 152.25 | 21.75 |
| | **MEDIA** | | | | | | | | | | |
| NYS | Disney | DIS | 113.25 | 112.50 | -0.75 | -0.66 | 36 | 0.60 | 0.53 | 128.38 | 73.81 |
| NAS | TCI (H) | TCOMA | 34.31 | 39.25 | 4.94 | 14.39 | - | 0.00 | 0.00 | 44.00 | 14.13 |

KEY: NYS=NEW YORK ASE=AMERICAN NAS=NASDAQ
(H)=NEW HIGH REACHED IN PERIOD (L)=NEW LOW REACHED IN PERIOD

**MARKET DIARY:**

| | |
|---|---|
| ADVANCES | 24 |
| DECLINES | 12 |
| UNCHANGED | 0 |
| NEW HIGHS | 10 |
| NEW LOWS | 5 |

**MOST ACTIVE ISSUES:**

| | | |
|---|---|---|
| LARGEST DOLLAR GAINER | Yahoo | $ 42.75 |
| LARGEST DOLLAR LOSER | Oracle | $ -7.75 |
| | | |
| LARGEST PERCENTAGE GAINER | Netscape | 39.04 % |
| LARGEST PERCENTAGE LOSER | Oracle | -13.53 % |

| | CLOSE 05/29/98 | CLOSE 06/25/98 | NET CHANGE IN PERIOD | PERCENT CHANGE IN PERIOD |
|---|---|---|---|---|
| MICROTIMES STOCK INDEX | 12300.89 | 13056.81 | 755.93 | 6.15 |
| DOW JONES INDUSTRIAL AVERAGE | 8899.95 | 8935.58 | 35.63 | 0.40 |
| STANDARD & POOR'S 500 INDEX | 1090.82 | 1129.28 | 38.46 | 3.53 |
| N.Y.S.E. COMPOSITE | 565.28 | 576.14 | 10.86 | 1.92 |
| NASDAQ COMPOSITE | 1778.87 | 1863.25 | 84.38 | 4.74 |

**CLOSING QUOTES FOR GRAPH:**

| DATE | MICRO TIMES | DOW JONES |
|---|---|---|
| 12/10/97 | 10922.72 | 7978.79 |
| 01/14/98 | 10813.50 | 7784.69 |
| 02/05/98 | 11808.05 | 8117.25 |
| 03/05/98 | 11573.81 | 8445.08 |
| 03/31/98 | 12466.06 | 8799.81 |
| 04/30/98 | 12934.83 | 9063.37 |
| 05/29/98 | 12300.89 | 8899.95 |
| 06/25/98 | 13056.81 | 8935.58 |

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The national indices turned in mixed results last month, as the Asian crisis again heated up. The Dow Jones Industrial Average nudged 0.40% higher, or 35.63 points, to close the monthly trading session at 8935.58. In sharp contrast, the high technology NASDAQ increased 4.74%, or 84.38 points, to a close of 1863.25.

The *MicroTimes* Stock Index followed the NASDAQ's climb, as our index was buoyed by impressive performances from Internet issues. Our index jumped 6.15%, or 755.93 points, to close the monthly trading period at 13056.81. In our index, advancing issues outpaced decliners by a 24-to-12 count, and ten companies reached annual highs versus five that fell to a 53-week low.

## Turning To Stocks In The Accompanying Table

IBM stocks collapsed amid gathering concern among traders for the near-term prospects of blue-chip tech companies. Goldman Sachs analyst Laura Conigliaro removed IBM from the firm's "Global Priority" list of stocks and pared down earnings estimates for the second and third quarters, saying that Asian worries, added to IBM's challenges in the personal computer market, "have probably all but eliminated upside possibilities for the current quarter." IBM closed down -4.31%, to end the month at $112.44.

News that the merger of MCI Communications and WorldCom will be approved by the European Union kicked MCI skyward, up 7.0%, ending at %57.25. News that Cable and Wireless dropped its suit against MCE also cheered traders as MCI rode the Internet magic carpet to complete the week as largest percentage gainer.

Shares of Yahoo! rocketed higher last month as commerce on the Internet continues to boom. When the books were closed on the monthly trading session, Yahoo!'s stock increased 39.04%, or $42.75 per share, to a close of $152.25. ◆

# Truth In Scanning

## *Legal Accountability For Point-Of-Sale Systems*

*By Jim Warren*

Kopp's bill would require the state Secretary of Food and Agriculture to "ensure that an item's price retrieved through the point-of-sale station is equal to or less than the lowest price that is advertised for that item."

Several decades ago, there was a brief battle in the California legislature over use of the bar-code scanners that are now standard tools in calculating your bill in most supermarkets and department stores. At least part of the issue was retailers' desire to stop the labor-intensive and delay-prone process of marking the price on each individual item—massively more costly than merely displaying the price on a shelf label near the product.

One of the concerns voiced by consumer activists at the time was that, without pricing marked on each item, it would be difficult for you to check the accuracy of your bills. But since a computer was printing the shelf labels as well as providing the pricing to the cash register at the checkout stand, of *course* there wouldn't be any significant errors...

Some cynics (realists?) even darkly suggested that maybe, just maybe, *some* unscrupulous retailers might intentionally program their computers to charge higher prices at the checkout stand than they print on the shelf labels, or "accidentally" increase the prices in the point-of-sale computers before they increased the prices marked on the shelf labels—doing either, regularly or randomly.

Disregarding those quaint theoretical arguments, the political reality was—and is—that the retailers' associations are among some of the more effective lobbyists in the state. We all know the results:

- Unit pricing is no longer marked on most items, and is *supposed* to be posted on a nearby shelf. Usually, it really is. Often, you can even figure out which price label goes with which similarly-named item among the mish-mash array of nearby products.
- But—*surprise!*—the actual price you are charged by the checkout computer differs from the price on the shelf label—almost 4% of the time, according to a study by one state agency.

Worse still, in October, 1996, the Federal Trade Commission released a study reporting that nationally, scanner-based prices were in error 4.8% of the time. (In fairness to the retailers, this well may be better than the error rate for old-fashioned human checkout—but then again, it *should* be!)

### Pro-Retailer "Accidents"

"Computer error," say some retailers. "Occasional mistake by a shelf clerk," say others. *Horse puckey* says I!

The same California Department of Food and Agriculture study that reported that scanner pricing was accurate 96.3% of the time also reported that 2.2% of the errors were overcharges, but only 1.5% were undercharges—hardly a "random" error!

(For the study, according to an April 5, 1997, article in the *San Francisco Chronicle*, the state purchased 9,000 items in 127 grocery stores and 173 auto, hardware, drug, and discount stores.)

There is general agreement that most scanner-related overcharges occur on sale items—where the price in the scanner's computer has been decreased after the lower sale price is advertised or posted on the shelf, or is increased before the shelf price or advertised price is changed to reflect the end of the sale.

*In other words, it's a management problem; not a computer problem.*

### Kopp Wants Government Policing

At the urging of the head of San Francisco's Department of Weights and Measures, state Senator Quentin Kopp (I-San Francisco) introduced Senate Bill 369 last year, calling it the, "California Shops with Confidence Consumer Protection Act." (More usefully, it's called a "point-of-sale station accuracy" bill in the legislature's computer, at *www.sen.ca.gov/htbin/ca-search-bills* .)

SB369 would allow counties the option of charging supermarkets and other retailers that use scanners an annual registration fee of $25 to $75, to be deposited in the county's general fund and used to pay for establishing or expanding the county's point-of-sale inspection bureaucracy.

*continued on page 30*

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| H/V FREQUENCY | 30-55KHz | 30-55KHz | 30-69KHz | 30-69KHz | 30-88KHz | 30-88KHz |
| MAX RESOLUTION | 1024x768(68Hz) 800x600(85Hz) | 1024x768(68Hz) 800x600(80Hz) | 1280x1024(75Hz) 1024x768(85Hz) | 1280x1024(75Hz) 1024x768(85Hz) | 1600x1200(70Hz) 1280x1024(80Hz) | 1600x1200(70Hz) 1280x1024(80Hz) |
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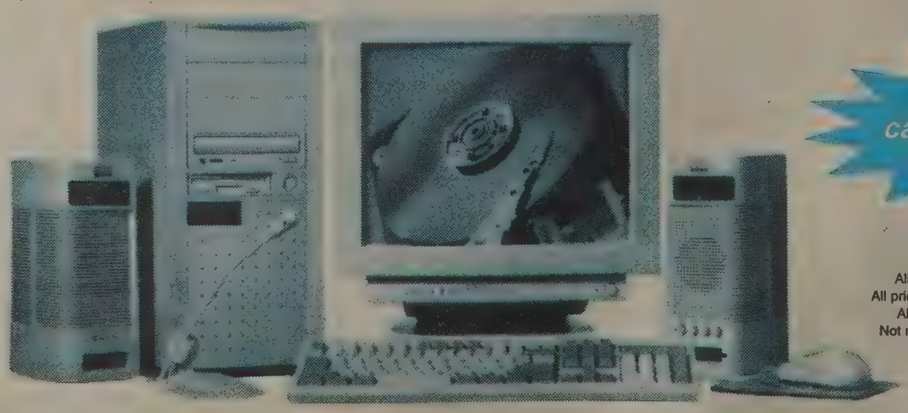

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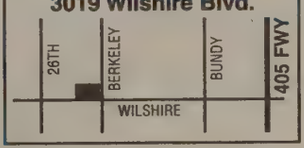


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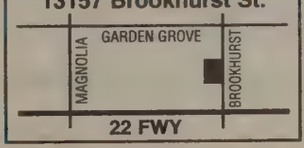


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*continued from page 26*

But folks, it ain't likely that the scanners are making the errors that so favor the retailers. It's "conveniently" sloppy mis-management of the shelf-pricing operations, or intentionally fraudulent activities by the retailer's computer programmers and their managers.

Among other things, Kopp's bill would require the state Secretary of Food and Agriculture (with whom supermarket associations try to maintain very cozy relations) to, "establish procedures to ensure that the verification of an item's price retrieved through the point-of-sale station is equal to or less than the lowest price that is advertised for that item."

Although Kopp introduced SB369 in February of 1997, as of mid-June, 1998, the bill was still locked up in the Senate, with no action on it since April 22nd when the Senate Committee on Appropriations had placed it in their suspense file.

### Better Than County Inspectors

Even contentious government inspectors have much less incentive than we consumers do to be vigilant against overcharges. This is especially true given that inspectors' jobs are rigidly protected by civil service rules as well as public employee union stewards. Even worse, local inspection schedules can easily be "leaked" to politically connected or financially "friendly" retailers.

Retailers have great incentive to make sure they don't *underbill* customers—and by the state study, do so less than 1.5% of the time. But they have no incentive at all to avoid overbilling, other than their reputations and business ethics.

When retailers were first lobbying for permission to stop marking prices on individual items, and the now-proven specter of "accidental" errors between shelf pricing and checkout charges that "just happen" to favor the retailers was first proposed, I suggested an easy solution. I still like it:

If the price charged at a point-of-sale station to the customer exceeds the advertised price or price marked on a shelf label, then, upon verification by any government official (e.g., a local beat cop), the retailer shall immediately pay the overbilled customer 100 times the cost of the item or $1,000, whichever is less. (And, the cop might buy some doughnuts in the process.)

*Please Big Brother, let us do it ourselves!*

### How About A Whistle-Blower Reward?

Then there is the issue of business owners or managers having a programmer intentionally modify their computer programs to defraud the public, by printing shelf-label prices different from the point-of-sale prices, or by intentionally increasing scanner prices on a regular or occasional, random basis (similarly, some gas station operators have been caught with pump computers "hacked" to erroneously increase the pump's volume and price counters on a regular or even random basis; some even had switches that they could use if they spotted a weights and measures inspector approaching a pump).

Instead of attempting a costly, delay-prone, court-clogging *criminal* trial of such intentional fraud, how about awarding any programmer or other employee who provides proof of such instructions and their implementation to, say, the local District Attorney, to collect, say, 50% of the business' profits as reported on their last income tax—with the evidence and award to be filed as public documents with, and enforced by, a civil court of competent jurisdiction?

This would reward the whistle-blower, underwrite their finding new employment, and costs a tiny fraction of a questionable criminal prosecution—thus, indirectly, repaying the tax-paying public for being ripped-off.

And it offers the most frightening of all threats to business—loss of profits. ◆

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- 56K Internal V.90 Voice/Fax/Modem
- Microsoft Windows '98 w/Disk

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- 56K Internal V.90 Voice/Fax/Modem
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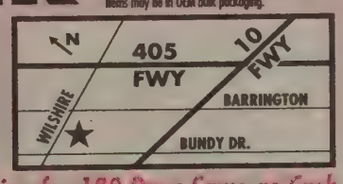


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- Monitor Not Included

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- 32X CD Rom, AGP SVGA w/4MB
- 3COM PCI 10/100 Network Card
- Mouse, Keyboard, Tower Case

NOVELL

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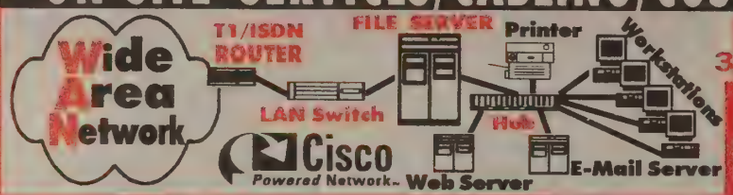


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| Intel 1-Port 1000SX Exp. Module For 500 Switch | $ 1999 |
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| 3COM SuperStack Switch Gigabit SX Module | $ 2399 |

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- Monitor Sold Separately

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| Pentium II - 266 MMX | $ 769 |
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| Remote Access Dial-In Kit Software | $ 245 |
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| 2X/4X/6X Int. IDE CDR40001 CD-RW w/SW | $699 |
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| | Cash |
|---|---|
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| DC210 W/Zoom Flash,LCD,4MB,1152x864 | $685 |
| DC[illegible] W/Zoom Flash,LCD,4MB,1152x864 | $[illegible] |
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SMC
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intel 10 or 100 Hub
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AHA-2940UW-Kit Ultra Wide PCI SCSI Kit .. 288
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AAA-133-Kit PCI UW SCSI RAID 0,1,5 For NT 759
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# Libertarianism Of Convenience

## *Political Hypocrisy In Cyberspace*

*By David Kline*

Take Scott "Just Say No to Government" McNealy. For a man who is famous for railing against "cry-baby industry watchdogs," he sure has been whining a lot over the past year for the Justice Department to get Microsoft off his competitive back.

When husband-and-wife researchers Donna Hoffman and Tom Novak (*www.microtimes.com/prof.html*) published a study recently showing that lower-income Blacks were far less likely to have Internet access than whites of similar economic status, they had no idea it would generate such a firestorm of hate mail.

After all, as respected Vanderbilt University professors, Hoffman and Novak had been tracking Internet demographics and usage patterns for years, but none of their previous studies had sparked much controversy. This one, however, clearly struck a nerve.

"I was shocked by the response," says Dr. Hoffman. "It wasn't just the 200 angry postings on the [Wall Street Journal's and ZDNet's] news sites that reported on our study. It was also the personal email we received. Some of it was openly racist; most of it was very, very hostile. The main complaint seemed to be: 'Oh great, another bleeding-heart liberal calling for government intervention!'"

Such fervent hostility to any mention of the political or social dimensions of today's high-tech revolution stems from the apparently-pervasive belief in Silicon Valley that social or political issues have no place in an industry that has so clearly demonstrated the virtues of supposedly-pure free market forces.

This cyber-libertarian worldview is, of course, practically the state religion of Silicon Valley's business community. Executives such as Cypress Semiconductor's T.J. Rodgers and Sun Microsystems' Scott McNealy have for years called for government to "get out of the way" of industry. Politics, they and their CEO brethren claim, will only destroy the high-tech industry's success. Unless, of course, it's *their* politics that are at issue.

Take Scott "Just Say No to Government" McNealy. For a man who is famous for railing against "cry-baby industry watchdogs," he sure has been whining a lot over the past year for the Justice Department to get Microsoft off his competitive back. Well, now he's got his way—and that's a government you just can't say no to, eh Scott?

Or how about T.J. "Free Minds, Free Markets" Rodgers? This self-appointed gladiator against "coercive government utopianism" is one of the biggest backers of a proposed federal bill that would severely restrict the rights of shareholders to sue companies for fraud or other misdeeds. Nothing wrong with a little "coercive government" when it helps your own bottom line, eh T.J.?

And then there's Bill Gates, of course, who (for obvious reasons) has been among the loudest critics of government intervention in the high-tech industry. Unless, of course, we're talking about *his* kind of government intervention. It seems that Gates was the chief promoter of a bill passed by the Senate last month that allows high-tech firms to import even more cheap foreign labor rather than hire American workers. Apparently, Mr. Bill isn't above bundling his anti-government rhetoric with a little pro-business government lobbying when it suits him.

In fact, Silicon Valley's business community is fast becoming one of the most powerful political forces in Washington. Whether it's lobbying for expanded visa quotas on cheap foreign tech workers, pushing for crippling restrictions on shareholder lawsuits, or fighting against taxation on the Net, high-tech's free-marketeers sure can get political when it suits them.

But let anyone mention racial disparities in Net access, consumer protection for PC users, worker rights or training, or basically any corporate responsibility issues, and these same high-tech politicos get all flush with indignation about how politics will supposedly cripple the high-tech industry. How about we cut out all the posturing, guys (and you are, by the way, mostly guys). Technology and free market entrepreneurialism are, indeed, the midwives of the future. But it is politics—the how and in whose interests that future is organized—that will determine whether it's a future we want to live in. ◆

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(add prices to pricing on left)

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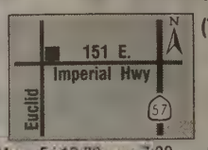


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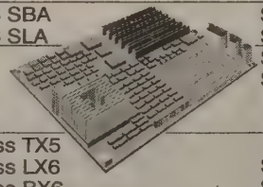

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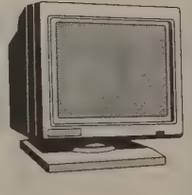

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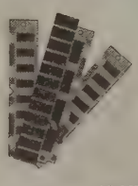
| 14" SVGA .28 dp NI | $95.99 |
| 15" SVGA .28 dp NI | $Call |
| 17" SVGA .28 dp NI | $194.99 |
| iiyama Pro 17 .25 dp | $499.99 |
| iiyama Pro 19" | $649.99 |
| MAG DJ-800 19" | $489.99 |
| MAG DX-700T .25 dp | $329.99 |
| Princeton Eo17 .26 dp | $299.99 |
| Shamrock 17" .26 dp NI | $Call |
| Sony 100 15" .25 dp | $249.99 |
| Sony 200ES .25 dp | $445.99 |
| Sony 200GS .25 dp | $549.99 |
| Viewsonic G773 .26 dp | $415.99 |
| Viewsonic P775 .25 dp | $439.99 |
| Viewsonic G790 19" | $579.99 |
| Viewsonic 810 21".25 dp | $889.99 |

## Video Cards AGP Video $Call

| | | |
|---|---|---|
| | Trident 4 MB TV Output 3D | $Call |
| | Trident 4 MB SGRAM | $Call |
| | 3D 2000 PRO 4 MB | $44.99 |
| | 4 MB 3D Monster | $98.99 |
| DIAMOND | 8 MB 3D Monster II | $179.99 |
| PCI / AGP | Viper 4 MB SGRAM 128 bit | $74.99 |
| | Fire GL 1000 PRO 4/8 MB | $109.99/$139.99 |
| | Xpert 98 8 MB | $75.99 |
| | 3D PRO Turbo PC2TV (8 MB) | $98.99 |
| PCI / AGP | All-in-wonder 4 MB | $114.99 |
| | All-in-wonder PRO 4/8 MB | $198.99/$228.99 |
| matrox | Productiva 8 MB | $65.99 |
| PCI / AGP | Millinium II 8 MB WRAM | $156.99 |
| | Mystique II 4 MB SGRAM | $59.99 |

## SDRAM / Memory 32 MB SDRAM $26.99

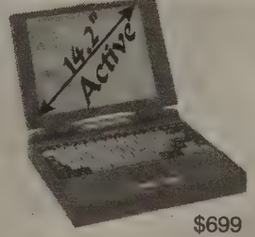


| | |
|---|---|
| 4MB 30 pin 70 nS | $9.99 |
| 4 MB 72 pin /EDO | $10.99/$9.99 |
| 8 MB 72 pin /EDO | $13.99/$11.99 |
| 16 MB 72 pin /EDO | $16.99/$12.99 |
| 32 MB 72 pin /EDO | $29.99/$22.99 |
| 64 MB 72 pin /EDO | $Call/$Call |
| 16 MB SDRAM / PC 100MHz | $14.99/$19.99 |
| 32 MB SDRAM / PC 100MHz | $23.99/$34.99 |
| 64 MB SDRAM / PC 100MHz | $63.99/$76.99 |
| 128 MB SDRAM / PC 100MHz | $124.99/$154.99 |

Please call for current prices.

## Notebooks

Please call for Pentium II Notebook Prices




**Toshiba** (Brand New)

| | |
|---|---|
| 50CT P-75, 16 MB, 810 MB, Active | $699 |
| 255CDS P133, 16 MB, 1.4 GB, 10x, 12.1" DScn. | $899 |
| 325CDS MMX233, 32 MB, 4 GB, 20x, 12.1" DScn. | $1,599 |
| 730XCT MMX150, 16 MB, 2.1 GB, 10x, 12.1" TFT | $1,399 |
| 490CDT PII233 MMX, 32 MB, 4 GB, 20x, 12.1" TFT | $2,799 |

**MSC**

- ✓ 32 MB EDO RAM
- ✓ 2.1 GB HDD
- ✓ Built-in touchpad
- ✓ 20x CD-ROM
- ✓ 16 bit wave table sound

| | 12.1" Active Matrix | 14.2" Active Matrix |
|---|---|---|
| MMX 200 MHz | $1,249 | $1,699 |
| MMX 233 MHz | $1,299 | $1,769 |

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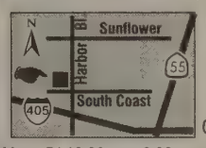
## Lawndale / Torrance

(310) 214-9883
Fax: (310) 214-9063
16711 Hawthorne Blvd.,
Lawndale, CA 90260
Mon–Fri 10:30 A.M.–6:30 P.M. • Sat 11:00 A.M.–5:00 P.M.
Closed Fri 1:15 P.M.–2:15 P.M.

## Dallas / Carrollton, TX

(972) 416-3901
Fax: (972) 416-3702
1235 Josey Lane
Suite 533
Carrollton, TX 75006
Mon–Fri 10:30 A.M.–6:30 P.M. • Sat 11:00 A.M.–5:00 P.M.
Closed Fri 1:15 P.M.–2:15 P.M.

## Garden Grove / Costa Mesa




MSC Authorized dealer
(714) 437-9672
3303 Harbor Blvd.
Suite F-1
Costa Mesa, CA 92626
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Closed Fri 1:15 P.M.–2:15 P.M.

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*All systems come with 1 year parts and labor warranty. Prices and product availability are subject to change without notice. Call for current prices. We are not responsible for typographical errors. 20% restocking for returns Prices reflect a 3% cash discount. Financing is based on approved credit. Each brand name is the trademark of the respective manufacturer. **Limit right reserved per family, per visit, on cash sale only

## PII / Pentium Upgrade

Intel PII / Pentium CPU, AT M.B.
Intel TX / LX / BX Chipset 100 MHz M.B.
AGP / PCI 4 MB Video Card
32 MB SDRAM 10nS

Celeron 266 $239.99
PII 266 $329.99
PII 400 $859.99
*For other CPU's _____ $Call*

**Fax Modem w/ Voice 56k** $29.99

**17" Monitor .28 dp N.I.** $194.99

## BLOWOUT SALE

### MMX 233 MHz Multimedia

- 24x EIDE CD-ROM
- Yamaha full duplex PnP sound card
- 500 CD titles
- Motherboard
- 16MB SDRAM 10nS
- 2.1 GB HDD
- 1.44MB FDD
- SVGA Window Acc.
- Digital Case
- Keyboard

Cyrix MX 233C $349.99
AMD K6 233 MMX $379.99
Pentium 233 MMX $399.99
Other CPU's $CALL

## X-TRA SPECIALS

**Intel Pentium II Celeron 266 w/ motherboard** $169.99

**Diamond Viper V330 4 MB SGRAM Video** $74.99

**6.4 GB U-DMA HDD <10mS** $155.99

**32 MB SDRAM 10nS** $23.99

## Systems w/ 14" Monitor

- Motherboard w/ 512k cache
- 16MB SDRAM 10nS
- 2.1 GB HDD
- 1.44MB FDD,
- SVGA Window Acc.
- Digital Case,
- Keyboard
- 14" Color Monitor

| | |
|---|---|
| MMX 200 | $449.99 |
| MMX 233 | $459.99 |
| PII 233 | $569.99 |
| PII 266 | $665.99 |
| K6-233 | $425.99 |
| K6-266 | $445.99 |
| MII 233 | $399.99 |

Cyrix MII 233 $399.99

## Turbo + Multimedia

**Internet, Networking, Cable Modem ready**

- Asus P2L97/P2B98 or Supermicro P6SLA/P6SBA (for Pentium II)
- 64 MB SDRAM
- 6.4 GB ULTRA ATA
- AGP* / PCI 3D 4 MB video card
- 105 Win95 keyboard & mouse
- 32X CD-ROM
- Sound Blaster AWE 64
- Multimedia speaker system
- 1,000 CD Titles
- PCI Network card
- 56k Fax MODEM w/ Voice supports ITU V.90
- Digital tower case
- 1.44 MB FDD
- 2 Hi speed serial, 1 parallel port
- 2 Hi speed USB ports

Color Printer add $139

| | | |
|---|---|---|
| AMD | MMX K6 233 | $579 |
| | MMX K6 266 | $599 |
| | 3D K6-2 300 | $699 |
| intel | MMX Pentium 233 | $629 |
| | Celeron 233 | $699 |
| | *PII 233 | $769 |
| | *PII 266 | $789 |
| | *PII 300 | $889 |
| | *PII 333 | $989 |
| | *PII 350 | $1,099 |
| | *PII 400 | $1,299 |
| | Xeon 450 MHz | $1,899 |

intel PII 266 $789

## The Complete Affordable Package

**w/ 17" Monitor & FREE Color Scanner**

- Internet ready
- 32 MB SDRAM 10 nS (6 times faster than regular)
- 4.3 GB Ultra DMA HDD
- 1.44 MB FDD
- ATI Win Boost MACH 64 w/ MPEG
- 56k Voice Fax/MODEM w/ Voice ASVD
- 24x CD-ROM
- Yamaha Full duplex PnP sound system
- Multimedia speakers
- 500 CD titles
- 17" SVGA .28 dp N.I. monitor
- Digital case
- Win95 keyboard, Mouse
- Color Scanner

| | | |
|---|---|---|
| intel | MMX 233 | $749 |
| | PII 233 | $849 |
| | PII 266 | $869 |
| | PII 300 | $969 |
| | PII 333 | $1,069 |
| | PII 350 | $1,179 |
| | PII 400 | $1,399 |
| | Celeron PII 266 | $779 |
| AMD | MMX K6 200 | $699 |
| | MMX K6 266 | $739 |
| | 3D K6II 266 | $759 |
| | 3D K6II 300 | $809 |

intel PII 233 $849

Color Printer add $139

Microsoft Windows98 $98.99 w/ system purchase

## What a Deal! w/ 15" Monitor

- Internet ready
- TX chipset motherboard w/ 512k pipeline burst chache supports Ultra DMA HDD up to 33 MB/S
- 4.3 GB U-DMA HDD
- 32 MB SDRAM 10nS
- Fax MODEM w/ Voice
- 1.44MB FDD
- 24x CD-ROM
- Full duplex PnP sound system w/ 80W speakers
- ATI WinBoost Mach 64 w/ MPEG
- Super digital case
- Win 95 105 turbo keyboard
- 15" SVGA .28 N.I. Color Monitor

| | | |
|---|---|---|
| AMD | MMX K6-200 | $549 |
| | MMX K6-233 | $539 |
| | MMX K6-266 | $569 |
| | MMX K6-300 | $629 |
| intel | MMX 166 | $559 |
| | MMX 233 | $589 |
| | PII 233 | $719 |
| | PII 266 | $739 |
| | PII 300 | $849 |
| | PII 400 | $1,269 |
| | Celeron PII 266 | $659 |
| Cyrix | MX 233C | $529 |
| | MX 300C | $579 |

intel MMX 233 $589

## Pentium II Multimedia

**Internet Ready – Multimedia System – w/ Fax MODEM**

- Internet ready system
- 32 MB SDRAM 10nS
- 4.3 GB EIDE HDD
- Voice FaxMODEM
- 3D AGP Video card
- 24x CD-ROM
- Yamaha 3D Full duplex PnP Sound System
- 500 CD Titles
- Multimedia speakers
- Digital tower, 1.44MB FDD
- Keyboard

intel

| | |
|---|---|
| PII 233 | $579 |
| PII 266 | $599 |
| PII 300 | $699 |
| PII 350 | $899 |
| PII 400 | $1,099 |

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COMPUTER NETWORK & COMMUNICATION

## VANTAGE BASIC II

| | |
|---|---|
| Pentium II 300 MMX ..... | $1119 |
| Pentium II 400 MMX ..... | $1443 |
| Pentium II 450 MMX ..... | $1680 |

- Intel BX Chipset, Single Processor Support
- Mid Tower Case
- 64MB PC100 SDRAM expandable to 768MB
- NEC 1.44" 3.5" Diskette Drive
- IBM 6.4GB 9.5ms Ultra DMA Drive
- Toshiba 32X CD-ROM Drive
- Creative Lab Vibra 16 Sound Card
- Yamaha M7 Speaker System
- Matrox G100 AGP 8MB SGRAM Video Card
- 1 Parallel Port, 2 Serial Ports
- 4 x PCI Bus, 2 x ISA Bus, 1 x AGP Slots
- Microsoft 104-key Natural Keyboard
- Microsoft Windows 98
- Microsoft PS/2 IntelliMouse
- One Year Full Parts & Labor Warranty

## VANTAGE POWER II

| | |
|---|---|
| Pentium II 300 MMX..... | $1340 |
| Pentium II 400 MMX..... | $1664 |
| Pentium II 450 MMX..... | $1898 |

- Intel BX Chipset, Single Processor Support
- Mid Tower Case
- 64MB PC100 SDRAM expandable to 768MB
- NEC 1.44" 3.5" Diskette Drive
- IBM 8GB 9.5ms Ultra DMA Drive
- Toshiba 32X CD-ROM Drive
- Creative Lab AWE64 Sound Card
- Yamaha M15 Speaker System
- Matrox G200 AGP 8MB SGRAM Video Card
- 1 Parallel Port, 2 Serial Ports
- 4 x PCI Bus, 2 x ISA Bus, 1 x AGP Slots
- Microsoft 104-key Natural Keyboard
- Microsoft Windows 98
- Microsoft PS/2 IntelliMouse
- One Year Full Parts & Labor Warranty

## VANTAGE PLUS II

| | |
|---|---|
| Pentium II 300 MMX..... | $1687 |
| Pentium II 400 MMX..... | $2011 |
| Pentium II 450 MMX..... | $2249 |

- Intel BX Chipset, Single Processor Support
- Mid Tower Case
- 128MB PC100 SDRAM expandable to 768MB
- NEC 1.44" 3.5" Diskette Drive
- IBM 10.1GB 9.5ms Ultra DMA Drive
- Toshiba 32X CD-ROM Drive
- Creative Lab AWE64 Gold Sound Card
- Altec Lansing ACS45 Speaker System
- Matrox G200 AGP 8MB SGRAM Video Card
- 1 Parallel Port, 2 Serial Ports
- 4 x PCI Bus, 2 x ISA Bus, 1 x AGP Slots
- Microsoft 104-key Natural Keyboard
- Microsoft Windows 98
- Microsoft PS/2 IntelliMouse
- One Year Full Parts & Labor Warranty

## VANTAGE BASIC IIS

| | |
|---|---|
| Pentium II 300 MMX..... | $1575 |
| Pentium II 400 MMX..... | $1899 |
| Pentium II 450 MMX..... | $2136 |

- Intel BX Chipset, Single Processor Support
- Mid Tower Case
- 64MB PC100 SDRAM expandable to 768MB
- NEC 1.44" 3.5" Diskette Drive
- Adaptec 2940U2W Ultra2 Wide SCSI-2 Controller
- Seagate Cheetah 4.5GB 5.2ms Ultra2 Wide SCSI-2
- Toshiba 32X CD-ROM Drive
- Creative Lab AWE64 Sound Card
- Yamaha M7 Speaker System
- Matrox G100 AGP 8MB SGRAM Video Card
- 1 Parallel Port, 2 Serial Ports
- 4 x PCI Bus, 2 x ISA Bus, 1 x AGP Slots
- Microsoft 104-key Natural Keyboard
- Microsoft Windows 98
- Microsoft PS/2 IntelliMouse
- One Year Full Parts & Labor Warranty

## VANTAGE POWER IIS

| | |
|---|---|
| Pentium II 300 MMX..... | $2287 |
| Pentium II 400 MMX..... | $2395 |
| Pentium II 450 MMX..... | $2536 |

- Intel BX Chipset,Single Processor Support
- Mid Tower Case
- 128MB PC100 SDRAM expandable to 768MB
- NEC 1.44" 3.5" Diskette Drive
- Adaptec 2940U2W Ultra2 Wide SCSI-2 Controller
- Seagate Cheetah 9.1GB 5.2ms Ultra2 Wide SCSI-2
- Toshiba 32X CD-ROM Drive
- Creative Lab AWE64 Sound Card
- Yamaha M15 Speakers
- Matrox G200 AGP 8MB SGRAM Video Card
- 1 Parallel Port, 2 Serial Ports
- 4 x PCI Bus, 2 x ISA Bus, 1 x AGP Slots
- Microsoft 104-key Natural Keyboard
- Microsoft Windows NT V4.0 Workstation
- Microsoft PS/2 IntelliMouse
- One Year Full Parts & Labor Warranty

## VANTAGE PLUS IIS

| | |
|---|---|
| Pentium II 300 MMX..... | $3286 |
| Pentium II 400 MMX..... | $3394 |
| Pentium II 450 MMX..... | $3535 |

- Intel BX Chipset, Single Processor Support
- Mid Tower Case
- 256MB PC100 SDRAM expandable to 7684MB
- NEC 1.44" 3.5" Diskette Drive
- Adaptec 2940U2W Ultra2 Wide SCSI-2 Controller
- Seagate Cheetah 18.2GB 5.7ms Ultra2 Wide SCSI-2
- Plextor 14/32X SCSI CD-ROM Drive
- Creative Lab AWE64 Sound Card
- Yamaha M15 Speakers
- Matrox G200 AGP 8MB SGRAM Video Card
- 1 Parallel Port, 2 Serial Ports
- 4 x PCI Bus, 2 x ISA Bus, 1 x AGP Slots
- Microsoft 104-key Natural Keyboard
- Microsoft Windows NT V4.0 Workstation
- Microsoft PS/2 IntelliMouse
- One Year Full Parts & Labor Warranty

## VANTAGE DUAL BASIC

| | |
|---|---|
| Pentium II 300 MMX..... | $1953 |
| Pentium II 400 MMX..... | $2277 |
| Pentium II 450 MMX..... | $2514 |

- Dual Processor Support Single Processor Installed
- Tower Case, 300W FCC / UL
- 64MB PC100 SDRAM expandable to 1GB
- NEC 1.44" 3.5" Diskette Drive
- Adaptec 2940U2W Ultra2 Wide SCSI-2 Controller
- Seagate Cheetah 4.5GB 5.2ms Ultra2 Wide SCSI-2
- Toshiba 32X CD-ROM Drive
- Creative Lab AWE64 Sound Card
- Yamaha M7 Speakers
- Matrox G100 AGP 8MB SGRAM Video Card
- 1 Parallel Port, 2 Serial Ports
- 4 x PCI Bus, 2 x ISA Bus, 1 x AGP Slots
- Microsoft 104-key Natural Keyboard
- Microsoft Windows NT V4.0 Workstation
- Microsoft PS/2 IntelliMouse
- One Year Full Parts & Labor Warranty

## VANTAGE DUAL POWER

| | |
|---|---|
| Pentium II 300 MMX..... | $2493 |
| Pentium II 400 MMX..... | $2817 |
| Pentium II 450 MMX..... | $3054 |

- Dual Processor Support Single Processor Installed
- Tower Case, 300W FCC / UL
- 128MB PC100 SDRAM expandable to 1GB
- NEC 1.44" 3.5" Diskette Drive
- Adaptec 2940U2W Ultra2 Wide SCSI-2 Controller
- Seagate Cheetah 9.1GB 5.2ms Ultra2 Wide SCSI-2
- Toshiba 32X CD-ROM Drive
- Creative Lab AWE64 Sound Card
- Yamaha M15 Speakers
- Matrox G200 AGP 8MB SGRAM Video Card
- 1 Parallel Port, 2 Serial Ports
- 4 x PCI Bus, 2 x ISA Bus, 1 x AGP Slots
- Microsoft 104-key Natural Keyboard
- Microsoft Windows NT V4.0 Workstation
- Microsoft PS/2 IntelliMouse
- One Year Full Parts & Labor Warranty

## VANTAGE DUAL PLUS

| | |
|---|---|
| Pentium II 300 MMX..... | $3492 |
| Pentium II 400 MMX..... | $3816 |
| Pentium II 450 MMX..... | $4053 |

- Dual Processor Support Single Processor Installed
- Tower Case, 300W FCC / UL
- 256MB PC100 SDRAM expandable to 1GB
- NEC 1.44" 3.5" Diskette Drive
- Adaptec 2940U2W Ultra2 Wide SCSI-2 Controller
- Seagate Cheetah 18.2GB 5.7ms Ultra2 Wide SCSI-2
- Plextor 14/32X SCSI CD-ROM Drive
- Creative Lab AWE64 Sound Card
- Yamaha M15 Speakers
- Matrox G200 AGP 8MB SGRAM Video Card
- 1 Parallel Port, 2 Serial Ports
- 4 x PCI Bus, 2 x ISA Bus, 1 x AGP Slots
- Microsoft 104-key Natural Keyboard
- Microsoft Windows NT V4.0 Workstation
- Microsoft PS/2 IntelliMouse
- One Year Full Parts & Labor Warranty

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# COMPUTER NETWORK & COMMUNICATION

## VANTAGE BASIC SERVER

| | |
|---|---|
| **Pentium II 300 MMX** | **$5599** |
| **Pentium II 400 MMX** | **$5989** |
| **Pentium II 450 MMX** | **$6275** |

- Dual Processor Support Single Processor Installed
- Mid Server Case, 300W Power Supply
- 128MB PC100 SDRAM expandable to 1GB
- NEC 1.44" 3.5" Diskette Drive
- Mylex 960 Ultra Wide 3 Channel RAID Controller
- 3 x Seagate Cheetah 4.5GB 5.2ms Ultra2 Wide SCSI-2
- Plextor 14/32X SCSI CD-ROM Drive
- Matrox G100 8MB SGRAM Video Card
- 1 Parallel Port, 2 Serial Ports
- 4 x PCI Bus, 2 x ISA Bus, 1 AGP Slots
- Microsoft 104-key Natural Keyboard
- Intel EtherExpress 10/100 Network Card
- Microsoft PS/2 IntelliMouse

## VANTAGE POWER SERVER

| | |
|---|---|
| **Pentium II 300 MMX** | **$7011** |
| **Pentium II 400 MMX** | **$7401** |
| **Pentium II 450 MMX** | **$7687** |

- Dual Processor Support Single Processor Installed
- Server Case, 2X 300W Hot Swap Power Supply
- 256MB PC100 SDRAM expandable to 1GB
- NEC 1.44" 3.5" Diskette Drive
- Mylex 960 Ultra Wide 3 Channel RAID Controller
- 3x Seagate Cheetah 9.1GB 5.2ms Ultra2 Wide SCSI-2
- Plextor 14/32X SCSI CD-ROM Drive
- Matrox G100 8MB SGRAM Video Card
- 1 Parallel Port, 2 Serial Ports
- 4 x PCI Bus, 2 x ISA Bus, 1 AGP Slots
- Microsoft 104-key Natural Keyboard
- Intel EtherExpress 10/100 Network Card
- Microsoft PS/2 IntelliMouse

## VANTAGE PLUS SERVER

| | |
|---|---|
| **Pentium II 300 MMX** | **$10833** |
| **Pentium II 400 MMX** | **$11223** |
| **Pentium II 450 MMX** | **$11509** |

- Dual Processor Support Single Processor Installed
- Super Server Case, 2X 300W Hot Swap Power Supply
- 512MB PC100 SDRAM expandable to 1GB
- NEC 1.44" 3.5" Diskette Drive
- Mylex 960 Ultra Wide 3 Channel RAID Controller
- 3x Seagate Cheetah 18.2GB 5.7ms Ultra2 Wide SCSI-2
- Plextor 14/32X SCSI CD-ROM Drive
- Matrox G100 8MB SGRAM Video Card
- 1 Parallel Port, 2 Serial Ports
- 4 x PCI Bus, 2 x ISA Bus, 1 AGP Slots
- Microsoft 104-key Natural Keyboard
- Intel EtherExpress 10/100 Network Card
- Microsoft PS/2 IntelliMouse

## MONITORS

### Nanao / Eizo

| | | | | |
|---|---|---|---|---|
| **TX.C7** | 17" | .25 | 1600 x 1200 | $745 |
| **TX.D7S** | 20" | .25 | 1600 x 1200 | $1590 |
| **FX.E8** | 21" | .26 | 1600 x 1200 | $1990 |

### Iiyama

| | | | | |
|---|---|---|---|---|
| **V/Master Pro 17** | 17" | .25 | 1600 x 1200 | $530 |
| **V/Master 450** | 19" | .26 | 1600 x 1200 | $720 |
| **VMaster Pro501** | 21" | .28 | 1600 x 1200 | $990 |
| **VMaster Pro502** | 21" | .28 | 1800 x 1440 | $1030 |

### Sony

| | | | | |
|---|---|---|---|---|
| **200ES** | 17" | .25 | 1280 x 1024 | $485 |
| **200GS** | 17" | .25 | 1280 x 1024 | $586 |
| **500PS** | 21" | .25 | 1600 x 1200 | $1390 |

### Viewsonic

| | | | | |
|---|---|---|---|---|
| **G773** | 17" | .26 | 1280x1024 | $415 |
| **P775** | 17" | .25 | 1280x1024 | $465 |
| **PT775** | 17" | .25 | 1280x1024 | $630 |
| **PT813** | 20" | .25 | 1600x1200 | $1269 |
| **P815** | 21" | .25 | 1880x1440 | $1275 |

## VIDEO CARDS

### ATI

**All-in-Wonder Pro** ..... CALL

### Diamond

**Monster II 3D** ..... CALL
**FireGL 1000 Pro** ..... $265

### Digital Processing Systems

**Perception PVR** ..... $1680
**Hollywood** ..... CALL

### ELSA

**Gloria Synergy** ..... $215
**Gloria L/MX** ..... $950

### Matrox

| | | |
|---|---|---|
| **Millennium II** | 4MB WRAM | $129 |
| **G100** | 8MB SGRAM | $95 |
| **G200** | 8MB SGRAM | CALL |

### STB

**Velocity 128 AGP** ..... $169

### Symmetric

**Glyder Max II** ..... $195
**Glyder TX-16** ..... $1360
**Glyder MX-16** ..... $1295

## CD-RECORDER

### Yamaha

| | | |
|---|---|---|
| **CD-400i** | 4 x 6 Internal Drive only | $395 |
| **CD-400x** | 4 x 6 External Drive only | $495 |
| **CDW-4260T** | 4 x 6 x 2 Internal Drive only | $455 |

## CD-ROMS

### Plextor

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|---|---|---|
| **12/20 Plex** | | $165 |
| **14/32 UltraPlex** | | $185 |

### Toshiba

| | | |
|---|---|---|
| **6202** | 32-Speed | $67 |
| **6201** | 32-Speed SCSI | $99 |

## SPEAKERS

### Altec Lansing

| | |
|---|---|
| **ACS-45** | $68 |
| **ACS-48** | $129 |

### Yamaha

| | |
|---|---|
| **M7** | $38 |
| **M15** | $68 |

## HARD DISKS-IDE

### IBM

| | | | | |
|---|---|---|---|---|
| **34330** | 4.3GB | Ultra DMA | 9.5ms | $162 |
| **36480** | 6.4GB | Ultra DMA | 9.5ms | $175 |
| **38400** | 8GB | Ultra DMA | 9.5ms | $245 |

## HARD DISKS - ULTRA WIDE SCSI

### IBM

| | | | | |
|---|---|---|---|---|
| **Ultrastar 9ZX** | 9.1GB | Wide Ultra SCSI | 6.3ms | $890 |
| **Ultrastar 18XP** | 18GB | Wide Ultra SCSI | | $1350 |

### Seagate BARRACUDA

| | | | | |
|---|---|---|---|---|
| **ST34573W** | 4.5GB | Wide Ultra SCSI | 7.1ms | $495 |
| **ST39173W** | 9.1GB | Wide Ultra SCSI | 7.1ms | $695 |
| **ST118273W** | 18.2GB | Wide Ultra SCSI | 7.6ms | $1150 |

### Seagate CHEETAH

| | | | | |
|---|---|---|---|---|
| **ST34502W** | 4.5GB | Wide Ultra2 SCSI | 5.2ms | $639 |
| **ST39102W** | 9.0GB | Wide Ultra2 SCSI | 5.2ms | $898 |
| **ST19101W** | 18.2GB | Wide Ultra2 SCSI | 5.7ms | CALL |

## HUBS/SWITCH

### Intel

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| **SH10T5** | 5 Port Hub 10Base-T | $59 |
| **SH10T8** | 8 Port Hub 10Base-T | $79 |
| **SH100TX4** | 4 Port Hub 100Base-T | $195 |
| **SH100TX8** | 8 Port Hub 100Base-T | $345 |
| **ES101TX** | 8 Port Switch 10/100Base-T | CALL |
| **ES510TX** | 24 Port Switch10/100Base-T | CALL |

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### Intel

**EtherExpress 10/100+** ..... $64

## TAPE BACKUPS

### Hewlett-Packard

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|---|---|---|
| **C1536** | 2-4GB SCSI DAT | $595 |
| **C1599** | 4/8GB SCSI DAT | $760 |
| **C1554** | 12/24GB SCSI DAT | $1150 |
| **C5468** | 6X24GB SCSI DAT | CALL |
| **C1579** | 20/40GB SCSI DLT | CALL |

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| **AHA-2940UW** | 32-bit PCI Ultra Wide SCSI | $159 |
| **AHA-3940UW** | 32-bit PCI WideSCSI MultiChan | $386 |
| **AAA-131** | 32-bit PCI Ultra Wide Raid | $450 |
| **AHA-F940** | 32-bit PCI Fibre | $698 |

### Emulex

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|---|---|---|
| **LightPulse PCI** | 32-bit PCI Fibre Channel Card | $2250 |
| **LightPulse Hub** | 32-bit PCI Fibre Channel Hub | CALL |

### Mylex

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|---|---|---|
| **DACPUM-1-4** | 32-bit PCI Ultra Wide SCSI Raid | $990 |
| **DACPUM-2-4** | 32-bit PCI Ultra Wide SCSI Raid | $1285 |
| **DACPUM-3-4** | 32-bit PCI Ultra Wide SCSI Raid | $1485 |

## MODEMS

### US Robotics

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### Asus

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|---|---|---|
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| **P2B-S** | Pentium II BX Motherboard | $295 |
| **P2B-DS** | Dual Pentium II BX Motherboard | $425 |

### Intel

| | | |
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| **AL440LX** | Pentium II LX Motherboard | $179 |
| **DK440LX** | Dual Pentium II LX Motherboard | $525 |

### Super Micro

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|---|---|---|
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| **P6DBS** | Dual Pentium II BX Motherboard | CALL |

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***Intel Pentium II MMX CPU 333MHz - RetailBox*** ..... ***$315***

***Intel Pentium II MMX CPU 400MHz - RetailBox*** ..... ***$585***

***Intel Pentium II MMX CPU 450MHz - RetailBox*** ..... ***$748***

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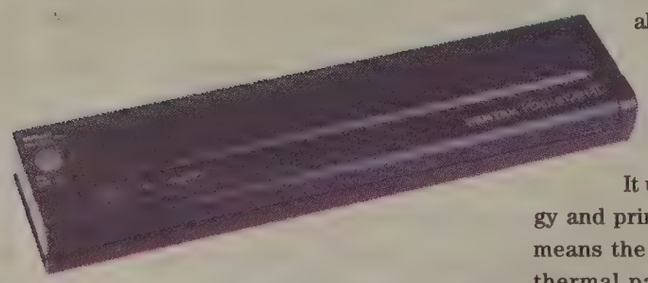
# Canon Comes Out Ahead

## *Portable Printers For Those On The Go*

*By Ed Kahn*

**The PocketJet II is perfect for printing an occasional letter or short memo, but don't rely on it to print that just completed, 100-page proposal.**



While there is no shortage of highly-portable computers, the mobile user often faces difficulties when it comes time to print. On a recent trip, for example, my solution entailed paying an exorbitant amount to print a couple pages at the local copy shop. This month, I examine a pair of portable printers that you can easily take with you on the road.

The smaller of the two printers is the Pentax PocketJet II, measuring roughly 10" wide by 2" deep by 1.25" high and weighing just over a pound (17.3 oz.). Tucked into its carrying case, the PocketJet II is reminiscent of a slide rule. This slim package has everything you need to print including a NiCad battery pack that provides enough power to print from 30 to 35 pages per charge, and will last 500 charges.

The PocketJet II works with Windows 3.x or 95 and is perfect for printing an occasional letter or short memo, but don't rely on it to print that just completed, 100-page proposal. Each sheet must be hand fed and the print speed is only three pages per minute.

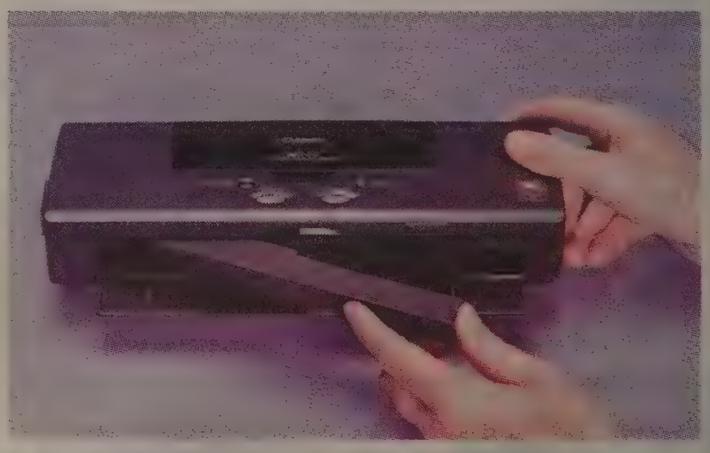
It uses direct thermal printing technology and prints at 300 dpi resolution. That also means the printer uses only thermal paper, which costs $8.49 for a box of 100 sheets. While this may seem costly, remember that you have no ink cartridges to buy. Paper comes in letter size as well as legal size.

On the top is a single button. Combinations of presses and holding down the button control everything from discharging and recharging the battery to ejecting paper. For instance, a single push turns the power on, and two quick pushes turns it off. In addition to the button, there are three lights on top that show if the printer is on, if the battery is charging, and when data is being received. On the bottom are four tiny dip switches for setting the automatic timer that turns off the printer after a set period of non-use and printing self-test sheets to see if everything is working properly.

As mentioned above, the PocketJet II is great for those times when you desperately need to print several pages. It is limited to a single type of paper (thermal) and prints only in black. Furthermore, I was disappointed in the print density, especially when I compared it to the quality of a standard ink jet printer.

The PocketJet II Kit includes the printer, Universal AC Adapter/Charger, 110v power cord, 100 sheets of letter-size paper, parallel cable, battery, carrying case, diver disk, and manual. It comes with a one-year warranty. A separate configuration is needed for printing legal size documents, which costs $50 extra. An optional IrDA infrared adapter is also available ($115).

The other printer I examined was the slightly larger, but much more capable BJC-50 from Canon. It measures 11.8" wide by 4.4" deep by 1.9" high and weighs 2.1lbs. This printer is a gem.



The BJC-50 works on bubble jet technology. You will need to install the print head and ink tanks, which takes less than a minute to slip

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- Multimedia Speaker 120W
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| Intel Pentium® 166MMX | $447 |
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| Intel Pentium® 233MMX | $470 |
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| AMD K6 266/300 | $467/490 |
| Cyrix MII 200/233 | $420/424 |
| Cyrix MII 266/300 | $452/479 |

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| Cyrix MII 200/233/266/300 | $ |

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- Lifetime Labor Warranty • 1 Yr. Part Warranty, 72 Hour Burn-In Test

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| Intel Pent. II 233 | $ |
| Intel Pent. II 266 | $ |
| Intel Pent. II 300 | $ |
| Intel Pent. II 333 | $ |
| Intel Pent. II 350BX | $ |
| Intel Pent. II 400BX | $ |

## Hard Disk

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|---|---|
| 1.7/2.1GB IDE | $95/$115 |
| 2.5/3.2GB UDMA | $125/$129 |
| 3.4/4.3GB UDMA | $133/$138 |
| 5.1/6.4GB UDMA | $175/$185 |
| 7/8.4GB UDMA | $265/$259 |
| 2.2/4.5GB SCSI-3 | $189/$240 |
| 6.4/9.0GB SCSI-3 | $385/$685 |

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| -Barcode Reader | $189 |
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| -CCD Scanner | $164 |
| -Barcode Print Software | $375 |
| -Cash Drawer | $169 |
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| -Receipt Printer | $264 |
| -Pole Display | $245 |
| -Switch Box | $39 |
| -6-25 Ft. Serial Parallel Cable | CALL |

## Monitor

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|---|---|
| 14" NI Digital (Built-in Mic) | $115 |
| 15" NI Digital (Built-in Mic) | $135 |
| 17" NI Digital (.28/.27) | $239/$243 |
| 17" NEC tw NI .27/Sunview .26 | $399/$255 |
| 17" Cybervision C70/C72 | $275/$335 |
| 17" Cybervision DS86 Diamontron .25 | $425 |
| 17" Cybervision Japan .25 (3 Yr.) | $395 |
| 19" Cybervision Japan .25 (3 Yr.) | $565 |
| 21" Cybervision Japan .25 (3 Yr.) | $869 |

Samsung (AST), Viewsonic, Sony

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|---|---|
| SN2000 ISA 16/PCI 32 Combo | $14/$17 |
| Ark 16 ISA PCI 32 Combo | $15/$18 |
| Intel 8460 10/100 PCI Fast Ethernet | $49 |
| 3Com 905TX-10/100BT PCI | $59 |
| Network Hub-5/9 Ports (1BNC) | $35/$49 |

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| BTC 24X | $54 |
| Toshiba 24X | $59 |
| 32X Acti/Tosh | $62/$72 |

## VGA Card

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|---|---|---|---|
| -S3 64 MPEGII 1M | $19 | -S3 3D MPEGII 2M | $23 |
| -S3 3D MPEGII 4M | $39 | -Trident 9685 3D 2M | $27 |
| -Trident 9685 3D 4M | $42 | -Jaton Blaze TV 2M | $35 |
| -Jaton Blaze TV 4M | $59 | -Millennium 4M AGP | $154 |

## Sound Card

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|---|---|
| 3D 16-Bit Sound Card | $15 |
| Ensoniq PCI 32-Bit | $29 |
| Sound Blaster 32-bit | $49 |
| Sound Blaster 64-bit | $72 |

## Miscellaneous

| | |
|---|---|
| • Sony Recordable/Mitsumi (8X2) IDE | $339/$339 |
| • Yamaha/Panasonic SCSI (4X8) | $439/349 |
| • SCSI Card Advansys ISA/PCI/Cable | $50/108 |
| • Adaptec 2940 UW SCSI Card & Cable | $177 |

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## Printer

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|---|---|
| -Canon Color 210/Canon 4000 (1Yr.) | $99/139 |
| -Epson Stylus 600/Epson Stylus 800 | $245/345 |
| -HP 670C/HP 692C | $205/225 |
| -HP 720C/HP 890CXI | $299/392 |
| -Brother 760/HP Laser 6L Laser Printer | $369/392 |
| -HP 590 OfficeJet (Printer/Fax/Copy/Scan) | $399 |
| -HP 630 OfficeJet (Printer/Fax/Copy/Scan) | $499 |

-Printer Serial Parallel Cable Auto Manual Switch Box

## Fax/Modem

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|---|---|
| -33.6K/SuperV | $35 |
| -TI Chipset 33.6/56K | $35/45 |
| -Pcs56K ESS Full/V-Ret. | $45 |
| -Rockwell 56K V90 | $55 |
| -Wisecom 56,000/V | $55 |
| -33.6/56K Ext/V | $65/89 |
| -U.S. Rob 56 Int/V | $89 |
| -U.S. Rob 56 Ent (Rebate $50) | $160 |

## Speakers

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## Head Phone

-Deluxe Stereo w/ Vol. Control .....$7

## Tape Backup

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|---|---|
| -Sony SDT 4-8GB | $595 |
| -Sony SDT 12-24GB | $960 |
| -Conner CDT 5000 (4-8) | $550 |
| -QT 2000XT 15-30GB | $1390 |

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| Microsoft Window NT 4.0 Work Station / Client 20 User | $135/$279 |
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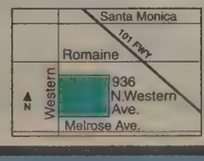


Mon-Sat 10-7 PM

into place. The head and tank come as a single unit, but tanks can be replaced without replacing the print head, which saves you money. Different types of ink have different tank capacities, but in general, costs come down to about 3¢/page for black ink and about 16¢/page for color.

The print quality is great, with 720 x 360 dpi resolution. Besides excellent quality, the printer creates black text pages at five per minute. The printer also offers color output at two pages per minute. Canon offers a range of specialty papers, including a photo paper ($9.95/20 sheets) for high-quality color prints.

The BJC-50 includes many features. It has a built-in rechargeable battery that automatically recharges from the included power supply and prints up to 100 sheets on a charge. Canon included an infrared port so you can print without using the parallel cable that also comes with this printer.

The additional feature I was most impressed with was that the print head is removable and can be replaced with a scanner cartridge ($99). This means that you can scan documents wherever you are. In addition, you can use your printer as a color copier—simply scan a document and then print it. The scanner cartridge scans at 360 dots per inch in 24-bit color. The scanner module is in short supply and I was unable to test it for this month's column. But I would assume that it works as well as the rest of the system.)

In the past, portable printers usually require you to insert individual sheets of paper, making it impractical to print longer documents even under the best conditions. Canon has addressed this by making an optional automatic sheet feeder ($59.99) that holds up to 30 sheets. The BJC-50 can handle standard paper sizes and envelopes and will print transparencies as well as a variety specialty products available from Canon. To round out the package, Canon offers a one-year warranty.

**The print head is removable and can be replaced with a scanner cartridge.**

The Canon BJC-50 is the portable printer i've been waiting for.

### Resources:

**PocketJet II Printer, $269**
**PocketJet II Kit, $399**
Pentax Technologies Corp.
100 Technology Dr.
Broomfield, CO 80021
(303)460-1659

**BJC-50, $349**
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15" Digital, Flat, 28mm Color Monitor
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PCI Enhanced IDE Controller
24-Speed CD-ROM
16-Bit Stereo Sound Card
180-Watt Speakers
Mouse, 104 Keyboard
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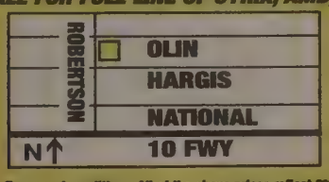


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# Computer Of The Month

## *Wedge's ShowBIZ-9000*

The Wedge ShowBIZ-9000 is ideal for people who make presentations with an overhead projector. However, besides offering specialized features for this target audience, this computer would be an excellent choice for anyone looking for a powerful notebook computer.

This computer is comparatively hefty—weighing nearly 8lb. and measuring 12" x 10" x 2" including its lithium-ion battery. For most applications, I actually prefer these heavier computers. While they are not as convenient for typing on an airplane, they usually offer better keyboards and more features than their lighter counterparts.

In recognition of the growing obsolescence of the floppy drive, Wedge offers a great deal of flexibility on the ShowBIZ-9000. The floppy drive is removable and the bay that normally holds the drive can easily house the battery instead. Likewise, the second bay can hold either a CD-ROM drive or a battery pack. If you decide to install a battery in both bays, the floppy drive can work as an external drive. Additional lithium-ion batteries are available for $195.

The ShowBIZ-9000 is powered by a Pentium 233 with MMX. It comes standard with 40MB of RAM, which can be upgraded all the way up to 128MB. A number of hard drives are available, but the system I tested held 4GB.

The display is active matrix, but measures only 12" diagonally. The thinking behind this was that by limiting the size of the display they could hold down the size and weight of the computer. More importantly, they reasoned, this computer is customized for someone who wants to use it in conjunction with an overhead projector and will be viewing the notebook's display.

At first glance, this computer doesn't look that much different from

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any other comparably sized laptop. But the display is totally unique. When you open the top, the display is conventional in appearance. The difference, however, is that the outside of the display—in other words, the case of the computer—lifts off so that you can see through the membrane that is the display. When you remove this backing, the display bends back 180 degrees and can be set on an overhead projector.

Wedge provides all the accessories to make this computer work efficiently as a display unit. In addition to the unique design of the display, you also get a collapsible platform to hold the computer and an infrared remote for controlling the computer from a distance. While the remote does not have a keyboard, the programmable buttons are designed to work with most slide presentation packages. In addition, the remote has a laser pointer that lets you point out features on the projected image. All in all, this is a well thought out system.

If you want to use an external monitor, you simply connect through the port on the side of the computer. The built-in display supports Super VGA resolution. The ShowBIZ-9000 also has provisions for displaying on a TV screen and for having TV output show on the computer screen. Of course, there are all of the normal multimedia features including a 20X CD-ROM drive, microphone, and ports for line-in and speakers. The built-in speakers are a cut above the normal as there are provisions for bass as well as normal sound ranges.

There are two USB ports and two PC Card slots. The lower of the PC Card slots is set up for Zoomed Video. A high-speed infrared port is included for wireless transfers to other similarly equipped computers or peripherals.

While this is a specialized computer, it does its primary job well enough so that it makes sense for anyone who wants a notebook and can utilize these other features from time to time. Wedge has wisely not designed a system that is so specialized that it will only appeal to people who want it for its unique feature.

The ShowBIZ-9000 is a well designed computer that comes with all you will need for making presentations. A generous carrying case comes standard and holds the computer, remote control, portable stand, and all of the cables and disks you may need. If you have dreamed of a computer that could take the place of transparencies, this is the system for you. ◆

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**At first glance, this computer doesn't look that much different from any other comparably sized laptop. But the display is totally unique.**

**Resources:**

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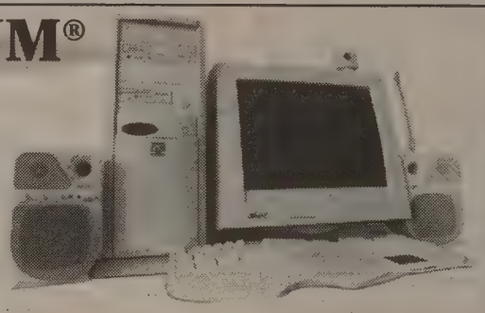

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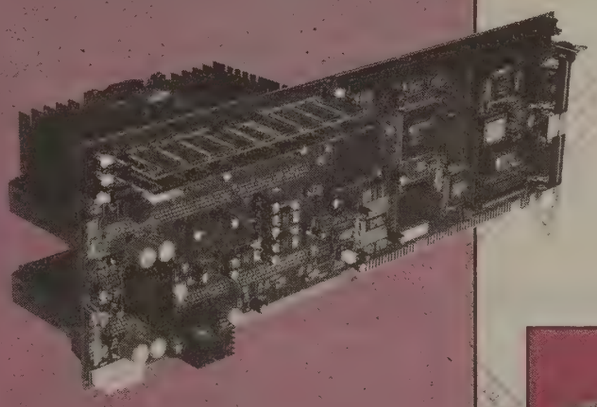

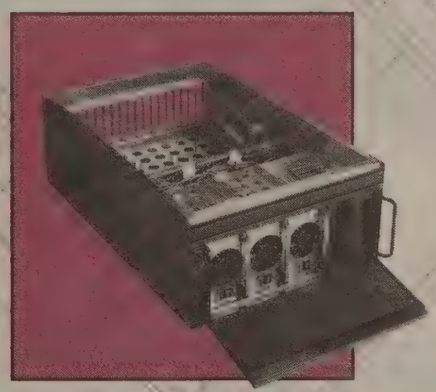

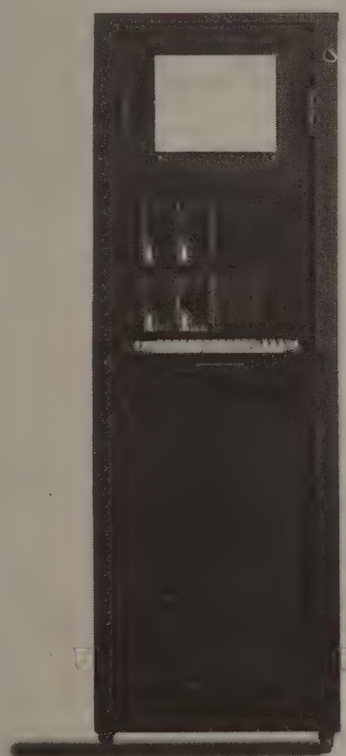

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# G3 PowerBook

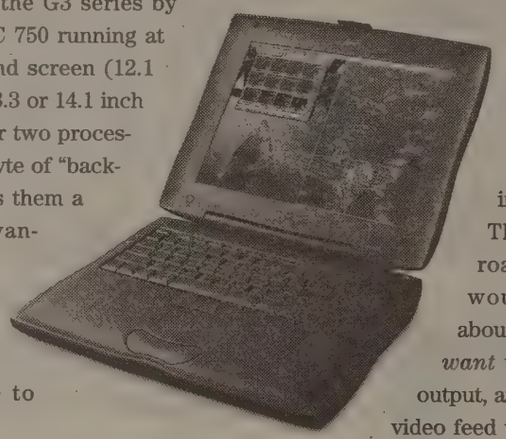
## *The Only Macintosh You'll Ever Need?*

*By Sam Penrose*

The PowerBook's final outstanding "feature" may seem obvious, but it matters: this is a Mac. Setting up an AppleTalk network to transfer my files from my desktop took 90 seconds.

Some say Apple's new PowerBook G3 Series are the first portable computers good enough to replace desktop Macintoshes. After using one for two days, I agree that it's hard to imagine a better laptop—but the laptop form factor has inherent problems, and good laptops still cost serious money.

Apple differentiates the G3 series by processor (the PowerPC 750 running at 233, 250, or 292MHz) and screen (12.1 inch passive matrix or 13.3 or 14.1 inch active matrix). The faster two processors come with a megabyte of "backside" cache, which gives them a huge performance advantage over the cacheless 233MHz model and all Windows notebooks. Prices range from just over $2,000 to nearly $6,000.



I used a 233MHz model with the 13.3 inch active matrix screen, list price $3,000. All models ship with internal CD-ROM drives and Ethernet; most have floppies and 56K modems, and you can trade up to a DVD-ROM or add a third-party Zip drive if you want. Customers who buy direct from Apple can configure their own unit.

### A Feast For The Senses

Big active matrix displays are the outstanding feature of today's high-end laptops. With my desktop Mac, I normally use a 17" Trinitron monitor at a WYSIWYG resolution of 832 x 624. The PowerBook G3's 13.3 inch active matrix display has a fixed resolution of 1024 x 768. Despite packing 50% more pixels into a smaller area, the PowerBook screen is as easy to read as the Trinitron, and shows more information faster in 24-bit color, thanks to the accelerated graphics system inside.

The screen comfortably displays two pages side-by-side, a real productivity enhancement with word processors, spreadsheets, or page layout programs. At about $600 more than the outdated entry-level 12.1"/800 x 600 pixel passive matrix LCD, the 13.3 inch TFT is one feature worth busting your budget for.

Off-black hues, curvy lines, and broad (12.7" x 10.4") but surprisingly thin (2") dimensions give the new machines a distinct physical presence. They weigh between 7 and 8 pounds.

The PowerBook G3 sounds as good as it looks. With *Bach Cello Suites* in the CD player, the internal speakers bring out Rostropovich's breathing from behind his bowing. The fan's muted jet-engine roar is not unpleasant, but it would make me think twice about working in a library. If you *want* to be noticed, 16-bit sound output, an SVGA connector and an S-video feed will help you get your point across to a big audience.

### A Mercedes Or A Porsche?

The PowerBook's benchmark test results are sky-high. Real world performance varies from stunning to unremarkable, depending on how much time the processor spends waiting, especially for the hard drive.

PowerBook buyers will do well to pick up a 64MB SO-SDRAM DIMM (under $150 from vendors who specialize in RAM). Once it's installed, turning off virtual memory and quadrupling the "disk cache" in your PowerBook's Memory Control Panel should result in noticeably improved responsiveness, while leaving plenty of RAM for applications. Also consider increasing the RAM partition of memory-sensitive applications like Web browsers by selecting the program's icon in the Finder, choosing the Get Info command, and increasing the figure in the "preferred size" field. Internet Explorer loaded pages twice as quickly after I tripled its partition to 16 megabytes.

The backside cache in the 250 and 292MHz

models will speed things up across the board, particularly in applications like VirtualPC that depend heavily on a small set of instructions.

## Two Caveats

The keyboard has a pleasant action, better than that of some cheap desktop keyboards. Unfortunately, the keys don't work well unless struck vertically, which forced me to place the keyboard at an ergonomically correct waist height, which in turn brought the screen right in front of my chest. This is an inherent problem with the laptop form factor.

I'm writing this column with the screen at a proper height on my desk, an external keyboard sitting on my lap, and a mouse nearby: a clumsy if effective solution.

To be fair, some people happily work all day on laptops. If you've never used a portable, try borrowing one to see how you adjust.

Computer users also vary in their budgets. As impressive as this PowerBook is, it would not have delivered the same experience without the big active matrix display. The bar is thus set at $3,000 for those who want a compelling product; $4,000 for a backside cache-packing screamer.

Street prices are close to those of comparably-featured Dell and Gateway laptops, suggesting that this is a problem with the underlying technology rather than Apple's implementation. But it's still a problem.

## Vive Le Difference

The PowerBook's final outstanding "feature" may seem obvious, but it matters: this is a Mac. Setting up an AppleTalk network to transfer my files from my desktop took 90 seconds and required only the system software installed on both machines at the factory and a $6 cable that came with my printer.

I felt free to monkey around with a friend's $3,000 computer because in the unlikely event of a system corruption, I could pop in the CD that came with the PowerBook and restore it from scratch in under 15 minutes. Windows doesn't ship with such a CD, and if it did most PC boxes couldn't use it, and most users wouldn't know how to make one work even if their machine's BIOS supported booting from a CD. That counts in the real world. If I'd had to worry about hosing my friend's DLLs, I wouldn't have been able to write this review.

Thanks to BMUGer and lead Quality Assurance engineer for Connectix' Virtual PC John Malm for contributions to this review. Feedback welcome at *MicroTimes_Column@bmug.org.* ◆

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## Online Resources:

**Get detailed product information at:**
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**Apple's online store** will allow you to configure your own machine: *http://store.apple.com/*

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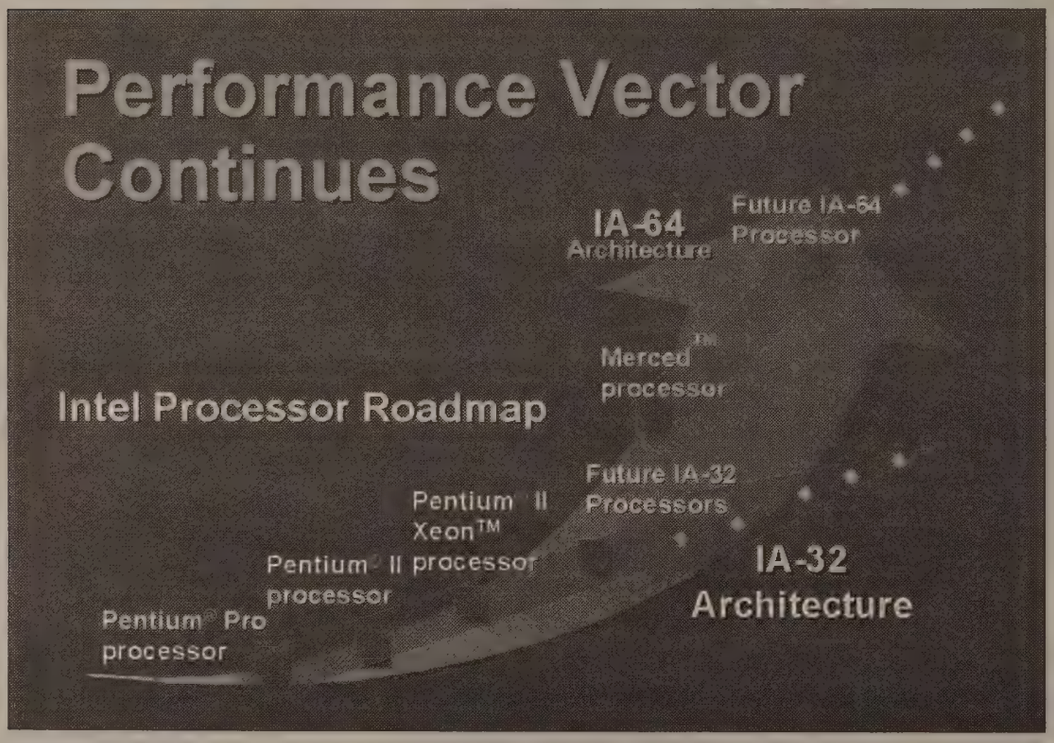
# Intel Launches PII Xeon

## *Performance Boost For High-End Workstations And Servers*

*By Mary Eisenhart*

Xeon is positioned as the successor to the Pentium Pro. It features 400MHz processor speed at introduction, along with a 100MHz system bus.

Intel's recent announcement of the 32-bit Pentium II Xeon processor line defined the next step in its roadmap for the high-end server and workstation market. Though the average desktop PC user is little affected by the advent of the new CPU, its hefty price tag (starting at around $1000 for OEMs and climbing rapidly with high clock speeds and larger caches) will be justified by performance increases in some more demanding situations.




Source: Intel

Optimized for multiprocessor systems and endowed with a larger L2 cache, the Xeon line is ideal for heavy transaction processing, CAD, graphics, and other calculation-intensive applications.

Xeon is a key component in Intel's strategy to increase market share in the high-end computing world presently dominated by RISC-based systems, particularly Sun's. Various UNIXes including Solaris are available for Xeon-based systems, in addition to Windows NT.

Announced June 29, Xeon is positioned as the successor to the Pentium Pro. It features 400MHz processor speed at introduction, along with a 100MHz system bus. Versions of the chip varying by speed and cache size will become available through the rest of the year.

The Level 2 cache and improved scalability of the Xeon over its predecessor result in better performance in situations where large amounts of data exceed the on-chip cache and therefore move to the L2. Michael Slater of MicroDesign Resources (*www.chipanalyst.com/q/@5244220qtpsym/analysts/michael/*), executive editor of *Microprocessor Report*, explains that the advantages are most notable in multiprocessor server configurations: "The larger cache has an additional level of benefit in that it reduces the amount of time the processor module accesses the bus, because it more frequently finds what it needs in the cache. As you add processors, performance scales more rapidly."

As to what issues should govern the decision to spend the extra money on Xeon instead of PII, Slater emphasizes that Xeon is not a consumer product and never will be. Instead, he says, "spending an extra $1,000 for an even modest performance boost can be justified in high-end system—when you're dealing with a $I00K system, paying an extra $1,000 for perhaps a 10% performance increase makes sense." Transaction processing, which, he says, makes good use of a big fast cache, is a typical application where the performance improvement would be worth the price.

The Xeon line is the most recent stage on the IA-32 side of Intel's processor roadmap (see diagram). As the 32-bit line continues to be developed in future years, it will be supplemented by the 64-bit IA-64 line, beginning with Merced. With the recent announcement that Merced's arrival would be delayed until next year, Xeon represents Intel's top of the line for the short-term future. ◆

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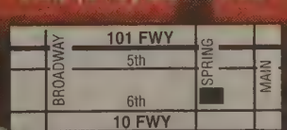

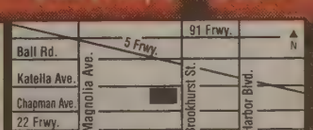

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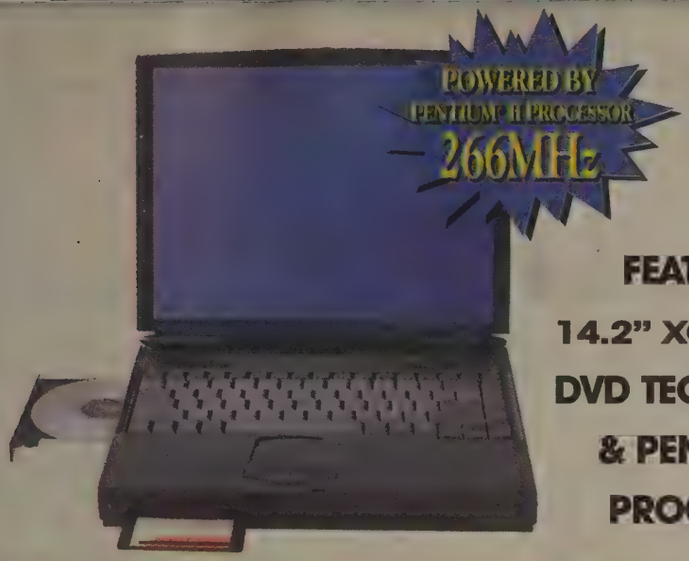


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# Internet Telephony

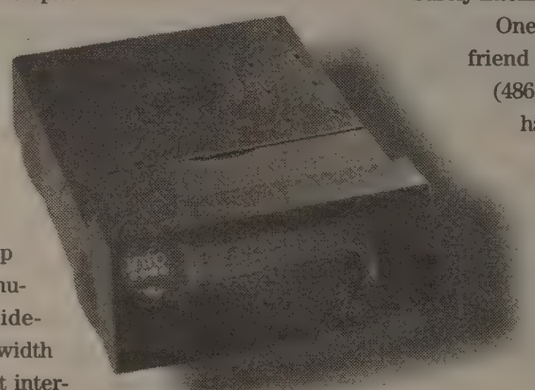
## *The Past, Present, And The Promise*

*By Ken Fermoyle*

The technology still isn't fully ready for prime time in most business environments. But it's getting closer every day.

Recent developments (e.g., mergers, Sprint's Integrated On-Demand Network) make it clear that computers, the Net, and telephones are converging rapidly; but what about Internet telephony? As it emerges from infancy to the toddler stage, Net phone technology faces a future with tremendous promise, but potentially serious problems. Will the latter stunt its growth, or will it flourish as a child prodigy and robust adult?

A lot of savvy analysts and business titans prophesy that telephony using Internet Protocol (IP Telephony) not only faces a prodigious childhood but could become a Goliath that eventually overshadows conventional telephony. Even naysayers agree that the technology has an excellent shot at long-term success, but add that it faces severe growing pains. These include efforts by traditional phone companies to keep it an undernourished communications stepchild (see sidebar), current Internet bandwidth restrictions, lack of product interoperability between vendors, and a clouded future on the political front.



InfoTalk is a Net telephony device that does not require a PC to work.

### The Past: For Hobbyists Only

Software-only products were the first that allowed hardcore users to make free long-distance phone calls via the Internet, circa 1996. Among the drawbacks: both parties had to be online at a prearranged time to hook up successfully, and sound quality was poor. There were time delays, often lengthy ones, as the conversation was routed through servers and switches and over lines of varying quality. Each user also had to have a sound card (preferably full-duplex), plus speakers and microphone (or headphones).

I first tried making long-distance phone calls via the Net in early 1997 when my ISP, Earthlink, called my attention to VocalTec's Internet Phone software, and provided detailed how-to directions in its online Tech Tips section. Downloading and installing it wasn't difficult, but did require some knowledge: SMTP Server designation, modem speed, etc.

As a novelty, the results were fine—but it was hardly worth the bother to save a buck or two. Making each of the several calls I tried required a flurry of emails to make sure we all had current copies of the software. Then we had to arrive at a mutually agreeable time to meet online for our cyberspace conversations. As I had been warned, time delays in the conversations were a nuisance, and sound quality ranged from fair to barely intelligible at times.

One of the calls was to a friend with an older system (486, with 14.4 modem and half-duplex sound card), which didn't help. We got in about two minutes of understandable talk during the six-minute call. The half-duplex sound card was a stumbling block. It works like a walkie-talkie; one person talks, then turns the conversation over to the other caller. (One benefit: no interruptions while you're talking!).

I concluded that I would take a pass on more phone calls over the Net until things improved. I could not see any viable business use for the technology as it then existed, and I could make personal calls in off-hours or on weekends so inexpensively that Net phoning wasn't worth the hassle.

### The Present: Rapid Growth Spurts

About a year passed, and new products appeared. So I began scoping out the current state of the art, discovering that improved software and new hardware claimed to solve many of the earlier problems. I acquired some samples to check their effectiveness.

There is good news, and semi-good news. The

*continued on page 58*

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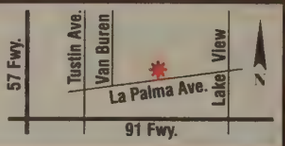


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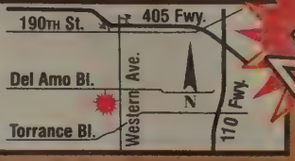


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## PLOTTER BLOWOUT

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|---|---|
| HP 430 D/E | $1,599/2,347 |
| HP 450C D/E | $1,899/2,699 |
| HP 455C D/E | $2,499/3,299 |
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P-166 MMX CPU
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| Sony 2x8 int. | $299/319 |
| Teac 4x12 int. | $399/419 |
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DVD DX22 (CT 7120)
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P-200 MMX CPU
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.22 ultra-high resolution
5 year warranty
**$599**

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| | |
|---|---|
| P401 14" | $119 |
| P521 15" | $159 |
| P73 17" .28 (1280x1024) | $259 |
| P73A 17" .26 (1280x1024) | $289 |

## ViewSonic®

G773 17" .26 dp NI **$449**

G810 21" .25 dp NI **$969**

## PRINTERS

| | |
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| EPSON STYLUS 800 | $289 |
| HP DJ 670C | $195 |
| HP DJ 692C | $229 |
| HP DJ 720C | $289 |
| HP DJ 890C | $395 |
| HP LJ 6Lxi | $379 |
| HP LJ 6Pxi | $719 |

# QUALITY PARTS & COMPONENTS

### SYSTEM BOARDS

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|---|---|
| Intel Triton M.B. w/512k TX Chipset | $69 |
| Intel Triton M.B. w/512k TX, Shuttle | $89 |
| Intel Pentium II 440 LX Chipset, Shuttle | $109 |
| Tyan Titan Turbo P100-233, TX | $99 |
| Tyan Tiger PII 233-300, 4 DIMM | $129 |
| Tyan Tiger 2 dual PII 233-333, 4 DIMM | $209 |
| Tyan S18465 BX 440 Chipset | $149 |
| Super Micro P65LA II 233-400 | $109 |
| Super Micro P6DLF dual Pent II (AT) | $149 |
| Super Micro P65BA BX440 Chipset | $149 |
| Asus TXP4 P75-233, TX, 512k | $105 |
| Asus P2L97 PII 233-333, LX chipset | $129 |
| Asus P2B98 II 350-500, BX Chipset | $169 |

### MEMORY

| | |
|---|---|
| 16 MB 72 pin EDO | $16 |
| 16 MB SDRAM | $19 |
| 32 MB 72 pin EDO | $27 |
| 32 MB SDRAM | $29 |
| 64 MB EDO | $69 |
| 64 MB SDRAM | $69 |
| 128 MB EDO / SDRAM | $139 |
| 64 MB PC-100 SDRAM | $79 |
| 128 MB PC-100 SDRAM | $159 |

### CASES w/ P/S

| | |
|---|---|
| Premium desk top w/ ps | $27 |
| Premium mini-tower w/ ps | $22 |
| Premium mid-tower w/ ps | $25 |
| Premium full-tower w/ ps | $65 |
| High end mini-tower w/ 2 cooling fans | $49/$65 |
| High end mid-tower w/ 2 cooling fans | $65/$79 |
| High end full-tower w/ 2 cooling fans | $99 |
| Removable hdd mounting kit IDE | $18 |
| ATX Tower case mid/full | $79/$109 |
| Server tower case w/ 300w ps | $289 |
| Server tower case w/ dual ps | $559 |

**WE DO COMPLETE ON SITE NETWORK SETUPS.**

### VIDEO CARDS

| | |
|---|---|
| Trident 9680 | $24 |
| S3 PCI 1MB | $26 |
| Dimd. Stlth 3D 2000 Pro 2 MB/4 MB | $55/$65 |
| Dimd. Stlth Viper 330 4 MB AGP/PCI | $79/$79 |
| Dimd. Stlth II S 220 SGRAM 4 MB | $79 |
| ATI All in Wonder Pro AGP w/ 4 MB / 8 MB | $209/$249 |
| ATI All in Wonder Pro PCI w/ 4 MB / 8 MB | $189/$239 |
| Matrox MGA Millenium II PCI w/ 4 MB/8 MB | $109/$169 |
| Matrox MGA Millenium II AGP w/4 MB/8 MB | $115/$189 |

### HARD DRIVES

| | |
|---|---|
| 2.0 GB EIDE | $115 |
| 2.0 GB EIDE WD | $125 |
| 2.5 GB EIDE UATA | $125 |
| 3.1 GB EIDE UATA WD | $130 |
| 4.3 GB UATA | $139 |
| 4.3 GB UATA WD | $145 |
| 6.4 GB UATA | $185 |
| 8.4 GB UATA | $249 |
| 4.5 GB UWSCSI IBM 7200 rpm | $329 |

### MODEMS

| | |
|---|---|
| 33.6 Rockwell int. w/ Voice | $35 |
| 56k Rockwell int. w/ Voice V.90 | $55 |
| 33.6 US Robotics sportster ext. retail | $79 |
| 56k US Robotics int. V.90 retail | $129 |
| 56k US Robotics int. V.90 OEM | $99 |
| 56k US Robotics ext. V.90 retail | $159 |

### SOFTWARE

| | |
|---|---|
| MS Win95 full version cd | $99 |
| MS DOS 6.22 / Win 3.1 | $39/$69 |
| Adobe Photoshop v4.0 | $329 |
| Corel WP Suite V8.0 | $159 |

### MONITORS

| | |
|---|---|
| 14" Relisys | $115 |
| 14" Nimble .28 dp NI | $115 |
| 14" Sceptre P401 | $119 |
| 15" Sceptre P521 | $159 |
| 15" Shamrock .28 dp NI | $149 |
| 15" Sony 100 GS | $329 |
| 15" NEC A500 | $329 |
| 17" Mag dj 700 digital .26 dp NI | $349 |
| 17" Princeton Gr. EO72 .26 dp NI | $399 |
| 17" Hitachi .22 dp 1600 x 1280 CM630 | $479 |
| 17" Sceptre P73 .28 dp 1280 x 1024 | $259 |
| 17" Sceptre P73A .26 dp 1280 x 1024 | $289 |
| 17" Viewsonic G773 .26 dp NI | $449 |
| 19" Princeton Gr. EO90 .26 dp NI digital | $679 |
| 19" Sceptre D97A .22 dp ultra-high rez. | $599 |
| 21" Viewsonic PG810 digital .25 dp NI | $969 |
| 21" Viewsonic P810 digital .25 dp NI | $1,059 |
| FT15 Flat Panel w/ Speakers | $999 |

### MULTIMEDIA

| | |
|---|---|
| Sound Blaster 16 sound card | $35 |
| Sound Blaster 64 PnP AWE Value | $69 |
| Sound Blaster 64 PnP AWE Gold | $139 |
| ESS win 95 sound card | $15 |
| 24x IDE CD-ROM Panasonic / Teac / Toshiba | $59 |
| 24x IDE CD-ROM | $46 |
| 32x IDE CD-ROM | $69 |
| 32x SCSI CD-ROM | $99 |
| 120-160 w stereo speakers | $29 |
| Surround speakers w/ sub woofer | $49 |

**CD Writers**

| | |
|---|---|
| Sony 2x8 int.IDE | $299 |
| Sony 2x8 int.SCSI | $319 |
| Teac 4x12 int. IDE | $399 |
| Teac 4x12 int. SCSI | $419 |
| Yamaha 2x4x6 int. IDE | $469 |
| Yamaha 2x4x6 int. SCSI | $499 |
| Phillips 2x4x6 int. SCSI | $399 |

### TAPE BACKUP

| | |
|---|---|
| Seagate 3200 MB int. | $149 |
| Seagate 8.0 GB IDE/SCSI | $219/$299 |
| Seagate 8.0 GB SCSI | $299 |
| Iomega Zip Plus drive 100 MB | $189 |
| Iomega Zip drive 100 MB int. IDE | $84 |

### NETWORK HW / SW

| | |
|---|---|
| Standard LAN card RJ45, BNC PCI/ISA | $17 |
| 3Com 3C905TX 10/100 10 baseT | $59 |
| Intel Ether Express Pro 10/100 10 baseT | $49 |
| Kingston PCMCIA network card 10 baseT | $89 |
| 8+1 port hub | $49 |
| 16+1 port hub | $99 |
| 12 port patch panel Cat. 5 | $59 |
| Windows NT work station 4.0 | $99 |
| Windows NT srvr w/10 clnts 4.0 | $589 |
| Windows NT srvr w/5 clnts 4.0 | $475 |
| Novel Netware 4.11/5 usr | $649 |
| Novel Netware 4.11/10 usr | $1,149 |
| Novel Netware 4.11/25 usr | $2,099 |
| Novel Netware 4.11/50 usr | $2,799 |

### SCANNER & MISC.

| | |
|---|---|
| HP Scanner 6100C | $719 |
| Microtek Scanmaker III w/Adobe Phtshp | $1,369 |
| UMAX Astra 1200 | $249 |
| UMAX Powerlook II w/Adobe Phtshp | $1,299 |
| Fujitsu 4720 keyboard | $39 |
| Logitech trackman marble | $79 |
| Logitech cordless mouse | $89 |
| Adaptec 2940 USCSI PCI cntrlr. w/ kit | $169 |
| Adaptec 2940 UW SCSI PCI cntrlr w/ kit | $189 |
| Adaptec 3940 UW (for disk mirroring) | $399 |

### PRINTERS

| | |
|---|---|
| Okidata 1200 PS 12 ppm, 600 dpi, 6 MB | $599 |
| Epson Stylus 3000 | $1,699 |

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# STANDARD SYSTEM

16M • 2.0G • 14"

**INTEL Pent.**

| | |
|---|---|
| Std. 166 | $449 |
| MMX 200 | $499 |
| MMX 233 | $519 |

**AMD**

| | |
|---|---|
| MMX K6-233 | $499 |
| MMX K6-300 | $559 |

24x Multimedia Kit $79
Win98 Full version $89

- VX Pro chipset system board
- 512K Synchronous cache
- PCI dual EIDE controllers w/ UATA support
- 16 MB EDO RAM
- 3½" 1.44MB Floppy Drive
- 2.0 GB EIDE UATA Hard Drive
- 64 BIT Graphics acclratr 1MB (Exp. to 2MB)
- 14" SVGA Monitr N.I. .28 D.P.
- Mini-Tower case w/ display & 230W P.S.
- Win 95 104 KB, Hi-rez mouse & mouse pad

# HOME SYSTEMS

32M • 24X • 4.3G • 14" • 33.6K

**INTEL Pent.**

| | |
|---|---|
| MMX 200 Mhz | $669 |
| MMX 233 MHz | $689 |

**INTEL Pent. II**

| | |
|---|---|
| MMX PII 266 | $769 |
| MMX PII 300 | $899 |

**AMD**

| | |
|---|---|
| MMX K6-300 | $649 |

DVD x2 Package $169
Win98 Full version $89

- INTEL Triton TX / 440 LX chipset system board
- 512K Synchronous cache
- PCI dual EIDE controllers w/ UATA support
- 32 MB EDO RAM
- 3½" 1.44MB Floppy Drive
- 4.3 GB EIDE UATA Hard Drive
- S3 Virge 3D Graphics card w/ 2MB (exp. to 4 MB) & MPEG
- 24X CD-ROM, Yamaha sound card
- Stereo dual speaker system
- 33.6 KBPS Internal Modem
- 14" SVGA Monitr N.I. .28 D.P.
- Mini-Tower case w/ display & 230W P.S.
- Win 95 104 KB, Hi-rez mouse & pad
- Multimedia software w/ Encyclopedia

# OFFICE SYSTEMS

64M • 32X • 6.4G • 15" • 56K

**INTEL Pent.**

| | |
|---|---|
| MMX 200 MHz | $769 |
| MMX 233 MHz | $789 |

**INTEL Pent. II**

| | |
|---|---|
| MMX PII 266 | $946 |
| MMX PII 300 | $1,059 |
| MMX PII 333 | $1,169 |

DVD x2 Package $169
Internal Zip drive Add $89
Win98 Full version $89

- INTEL Triton TX/440 LX chipset system board
- 512K Synchronous cache
- PCI dual EIDE controllers w/ UATA support
- 64 MB EDO RAM
- 3½" 1.44MB Floppy Drive
- 6.4 GB EIDE UATA Hard Drive
- S3 Virge 3D Graphics card w/ 2MB (exp. to 4 MB) & MPEG
- 32X CD-ROM, Yamaha sound card
- 160W Stereo dual speaker system
- 56 KBPS Internal Modem w/ Voice V.90
- 15" SVGA Monitr N.I. .28 D.P.
- Mid-Tower case w/ display & 230W P.S.
- Win 95 104 KB, Hi-rez mouse & pad

# GRAPHICS SYSTEMS

64M • 32X • 8.4G • 17" • 56K

**AMD**

| | |
|---|---|
| MMX K6 300 | $1,239 |
| MMX K6-2 3D 300 | $1,299 |

**INTEL Pent. II**

| | |
|---|---|
| MMX PII 300 | $1,479 |
| MMX PII 333 | $1,589 |
| MMX PII 350 | $1,699 |
| MMX PII 400 | $1,899 |

DVD x2 Package $169
Internal Zip drive Add $89
Win98 Full version $89

- Intel Triton TX/440 LX/440 BX system board
- 512K pipeline burst cache
- PCI Dual EIDE Controllers w/ UATA support
- 64 MB SDRAM 10nS
- 3½" 1.44MB Floppy Drive
- 8.4 GB EIDE UATA Hard Drive
- Matrox Productiva 8 MB graphics card AGP
- 32X CD-ROM
- SB AWE64 sound card stereo
- Hi-End Speakers w/ Sub woofer
- 56 KBPS Internal Modem w/ Voice V.90
- 17" SVGA .26 D.P. N.I. Monitor, Flat
- Mid-Tower case w/ 250W P.S. & dual fans
- Keytronic 104 KB, Logitech mouse & pad

# CAD / NT SYSTEMS

128M • 32X • 11.5G • 17"• 56K

**INTEL Pent. II**

| | |
|---|---|
| MMX PII 266 | $1,699 |
| MMX PII 300 | $1,829 |
| MMX PII 333 | $1,939 |
| MMX PII 350 | $2,099 |
| MMX PII 400 | $2,299 |

DVD x2 Package $169
Internal Zip drive Add $89
NT 4.0 Workstation $169

- Intel Triton 440 LX/ 440 BX system board w/ AGP
- 512K pipeline cache
- (Shuttle / Tyan / Asus / Super Micro)
- PCI Dual EIDE Controllers w/ UATA support
- 128 MB Super Fast PC100 SDRAM
- 3½" 1.44MB Floppy Drive
- 11.5 GB UATA Hard Drive
- Matrox Millennium II w/ 8 MB WRAM AGP
- 32X CD-ROM, SB AWE64 Card, Spkrs w/ Subwoofer
- 56 KBPS Internal Modem
- 17" SVGA MAG DJ700 / ViewSonic G773 Monitor
- Mid-Tower heavy duty ATX case w/ 250W P.S.
- Keytronic 104 KB, Logitech mouse & pad

# FILE / WEB SERVER

256M • 32X • 9.0G • 15"

**INTEL Pent. II**

| | |
|---|---|
| MMX PII 333 | $2,569 |
| MMX PII 350 | $2,799 |
| MMX PII 400 | $2,999 |

**DUAL**

| | |
|---|---|
| MMX PII 333 | $2,999 |
| MMX PII 350 | $3,499 |
| MMX PII 400 | $3,989 |

NT 4.0 10 User Add $595
Novell 4.11 10 User Add $1195

- Intel 440 LX/440 BX Chipset system board w/ AGP
- (Shuttle / Tyan / Asus / Super Micro)
- 256 MB *Super Fast PC100* SDRAM
- 3½" 1.44MB Floppy Drive
- 9.0 GB Ultra Wide SCSI Hard Drive 7200 RPM
- Adaptec 2940 UW SCSI controller
- Diamond 3D 4000 4 MB AGP
- Heavy duty full tower w/ 300W P.S. ATX
- Keytronic 104 keyboard
- Logitech Dexxa 3 Btn. mouse
- 15" SVGA Monitor N.I. .28 D.P.
- Toshiba 32X SCSI CD-ROM
- HP / Seagate 4/8 GB Tape backup
- Intel 10/100 MBPS PCI RJ45 Network Card

# HEWLETT PACKARD SYSTEMS

| | | |
|---|---|---|
| Vectra Ve4 | $929 | Pentium 166 MMX 2.1 GB 16 MB ISA/PCI W.F.W./ Win95 |
| Vectra VL5 | $1,069 | Pentium 200 MMX 2.5 GB 16 MB ISA/PCI W.F.W./ Win95 |
| Brio 8012 | $869 | Pentium 166 MMX 2.1 GB 16 MB ISA/PCI Win95 |
| Brio 8172 | $1,109 | Pentium 166 MMX 2.1 GB 16 MB ISA/PCI Win95 16x CD |
| Brio 8037 | $1,299 | Pentium 233 MMX 3.2 GB 32 MB ISA/PCI Win95 24x CD |
| Kayak XA | $1,639 | Pentium II 233 MMX 2.5 GB 16 MB ISA/PCI Win95 24x CD |
| Kayak XA | $2,689 | Pentium II 266 MMX 2.1 GB 32 MB ISA/PCI NT4.0 24x CD EtherNet |
| Kayak XU | $4,659 | Dual Pentium II 300 MMX 4.5 GB 64 MB ISA/PCI NT4.0 24x CD EtherNet |

NT 4.0 10 User Add $595
Novell 4.11 10 User Add $1195

HEWLETT PACKARD

# HP / IBM NET SERVERS

HEWLETT PACKARD

| | | |
|---|---|---|
| E45 | $1,569 | PII-233, 32 MB, no Hard Drive, SCSI controller, 8x SCSI CD-ROM, built-in NIC |
| E45 | $1,899 | As above except w/ 4.3 GB FSCSI Hard Drive |
| E45 | $1,799 | PII-266, 32 MB, no Hard Drive, SCSI controller, 8x SCSI CD-ROM, built-in NIC |
| E45 | $2,149 | As above except w/ 4.3 GB FSCSI Hard Drive |
| LH | $5,099 | Dual P Pro-200, 64 MB, UW SCSI controller, SCSI CD-ROM, NIC |
| LH | $7,899 | Dual P Pro-200, 64 MB, RAID controller, SCSI CD-ROM, NIC |

IBM

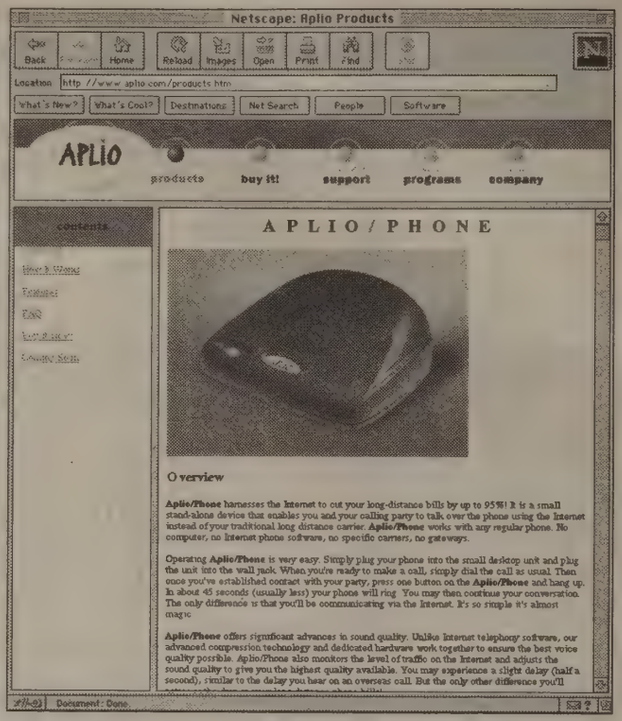
| | | |
|---|---|---|
| Server 325 | $3,387 | PII-233, 32 MB, 4.1 GB SCSI Hard Drive, SCSI controller, 8x SCSI CD-ROM, NIC |
| Server 330 | $3,899 | PII-233, 64 MB, no Hard Drive, SCSI RAID controller, 8x SCSI CD-ROM, NIC, Hot swappable |

Systems w/ one yr. parts & labor warranty. Prices & availability subject to change w/o notice, Prices incl. cash disc. Not responsible for typo . All trade marks belong to respective companies. 72 hour burn-in before shipment

*continued from page 54*

good news is that the new hardware and software *do* improve Net phone calls, with the convenience factor somewhat improved. The semi-good news is that the technology still isn't fully ready for prime time in most business environments. But it's a lot closer than it was, and getting closer every day. It definitely is moving out of the hobbyist-only stage at a rapid rate of knots.

The hardware I checked included Internet PhoneJACK, InfoTalk, and Aplio/Phone, all different but representative of currently available Net phone equipment. Software used included the latest version of VocalTecs Internet Phone, Microsoft's Net Meeting, and IDT's Net2Phone. These were not objective, scientific tests, understand; just quick, subjective trials to see how the results compared with my earlier software-only Net phone calls and with those I make every day using conventional phone service.


Netscape: Aplio Products
Back
Home
Reload
Images
Open
Print
Find
Location http://www.aplio.com/products.htm
What's New?
What's Cool?
Destinations
Net Search
People
Software
APLIO
products
buy it!
support
programs
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contents
APLIO/PHONE
Overview
Aplio/Phone harnesses the Internet to cut your long-distance bills by up to 95%! It is a small stand-alone device that enables you and your calling party to talk over the phone using the Internet instead of your traditional long distance carrier. Aplio/Phone works with any regular phone. No computer, no Internet phone software, no specific carriers, no gateways.
Operating Aplio/Phone is very easy. Simply plug your phone into the small desktop unit and plug the unit into the wall jack. When you're ready to make a call, simply dial the call as usual. Then once you've established contact with your party, press one button on the Aplio/Phone and hang up. In about 45 seconds (usually less) your phone will ring. You may then continue your conversation. The only difference is that you'll be communicating via the Internet. It's so simple it's almost magic
Aplio/Phone offers significant advances in sound quality. Unlike Internet telephony software, our advanced compression technology and dedicated hardware work together to ensure the best voice quality possible. Aplio/Phone also monitors the level of traffic on the Internet and adjusts the sound quality to give you the highest quality available. You may experience a slight delay (half a second), similar to the delay you hear on an overseas call. But the only other difference you'll
Document: Done.

**Aplio/Phone is a standalone that allows voice communication through the Internet without a PC or gateway service.**

## Hardware Solutions Vary

PhoneJACK is a Plug-and-Play DSP (digital signal processing) card that plugs into an ISA slot (half or full). It works alongside, but independently of, existing sound cards. It doesn't need a modem, and—wonder of wonders!—does not require one of your precious IRQs, simplifying installation. It includes an RJ-11 POTS (Plain Old Telephone Service) port, RJ-12 headset port and 3.5mm connections for microphone and speaker. Its hardware-based compression technology reduces delay and CPU load on your system.

You can connect a standard phone to the PhoneJACK card and enjoy sound quality rivaling that of conventional phone calls. It's ideal if there is another PhoneJACK on the other end of the call, but that's not necessary. Even if the other party is only using such software as NetMeeting or Net2Phone, both parties benefit from PhoneJACK's better sound.

InfoTalk and Aplio/Phone, Net telephony devices from InnoMedia and Aplio, Inc., differ markedly from PhoneJACK in that they do not require a PC to work. Both plug in between a conventional phone and POTS wall outlet, serving as a mini-gateways to the Net. Their major drawback is that they use proprietary technologies, so parties on both ends of a phone call must use the same products. An InfoTalk phone cannot talk to an Aplio/Phone, or to any other IP Telephony device.

InfoTalk is based on a patent-pending technology that uses unique multiple compression algorithms, according to developer InnoMedia. It did reduce time lags noticeably, especially in comparison with software-only IP Telephony products. InfoTalk is software-upgradeable and includes a built-in modem, 2-line by 20-character LCD display, an RJ-11 line connector and an RJ-11 telephone connector.

To make a call, you dial the number normally. When the call is answered, you tell the other party you want to make this an Internet call. (Remember, both of you must have InfoTalk devices installed properly.) Either the caller or callee can then press the pound (#) key to initiate the Internet connection. When the connection is established, you can begin the conversation. If your ISP is busy, InfoTalk automatically redials the number.

Aplio/Phone, like InfoTalk, is a standalone that allows voice communication through the Internet without a PC or gateway service. To make a call, you dial the other party as usual. When a connection is made to the other Aplio/Phone, either party can press the "Aplio" button on the device to switch the call from the long-distance carrier to the Internet. Both parties then hang up; in about 45 seconds or less, the phones ring and callers can converse as usual. Only they're doing it on the Internet, not with AT&T's or MCI's meter running.

That's the current state of the art. The three approaches—software only, DSP cards, and standalone devices—have drawbacks, but I lean toward the PhoneJACK as the best solution for my purposes at this point.

*continued on page 63*

## Telcos Attempt To Stunt Growth Of Internet Telephony

They say they want to level the playing field, but traditional phone companies' attacks on Net telephony look more like efforts to stifle competition before it gets a foothold. At least that's how it looks to many industry analysts, including this admittedly biased observer.

Preemptive strikes began in March, 1996 when a lobbying group, America's Carriers Telecommunications Association (ACTA), petitioned the Federal Communications Commission (FCC) to start regulating Internet telephony. At that time, remember, using the Net for phone calls had so many drawbacks that it attracted only hobbyists and hardcore techies. Even now, best estimates place the Net phone user base at just 100,000 to 200,000 people.

ACTA argued that Net telephony, then still in prenatal stage, was getting a free ride and should be subject to all the same regulations and access fees as the giant telcos. The FCC vetoed the idea after receiving a storm of protest, so Net telephony remained unregulated.

Now telcos have mounted new attacks. They want to force their Net competitors, hardly a realistic description at this point, to pay into the federal Universal Service Fund. The Fund subsidizes phone service for rural areas and the poor, and helps wire schools and libraries to the Internet. ACTA claims that telco contributions to the Fund are, in effect, subsidizing the competition, a dubious argument. How much long-distance business will poor or rural callers and libraries or schools generate?

The other, more subtle attack came when AT&T reneged on a promise to Congress that it would not pass along cost of the school and library Internet wiring subsidy to customers. It now plans to jack up interstate long-distance bills by 5% beginning July 1. MCI went AT&T one better, announcing a 5.9% increase. This brought heated reaction from customers. Congress responded by threatening to pull the plug on the wiring program, which many industry observers suspect was exactly the reaction that telcos wanted.

Even its staunchest advocates do not propose that Net telephony remain exempt from FCC regulations and fees indefinitely. It's just the timing, says Jeff Pulver, chair of Voice On the Net (VON) Coalition. Pulver and VON believe that Net phone service needs another two or three years of regulation-free nurturing to develop. Assessing fees now might curtail investments needed to help it become established. Pulver also feels the FCC might consider alternate ways for Net phone companies to pursue the goal of universal service. —*K.F.*

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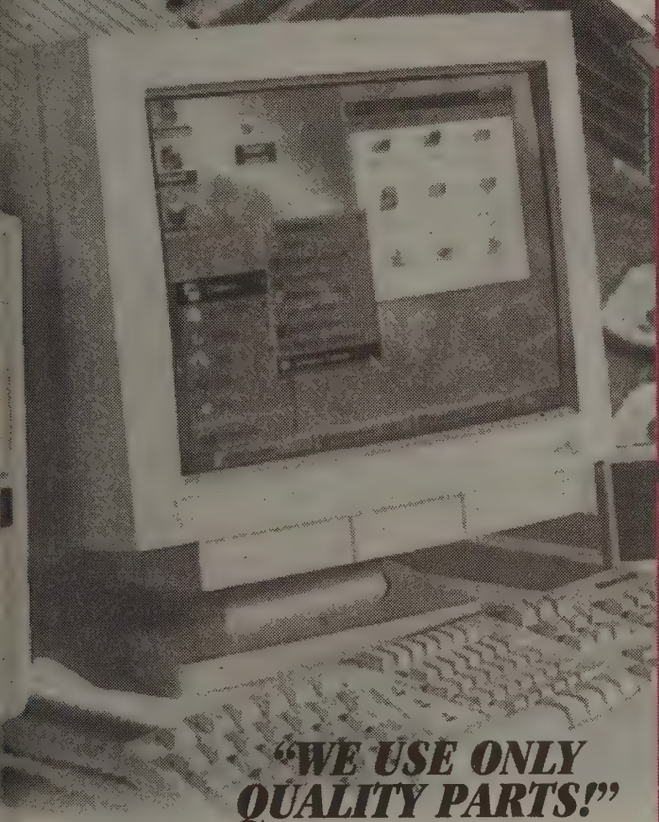

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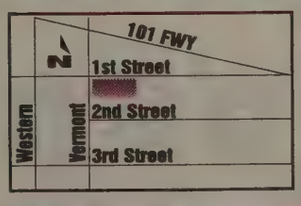


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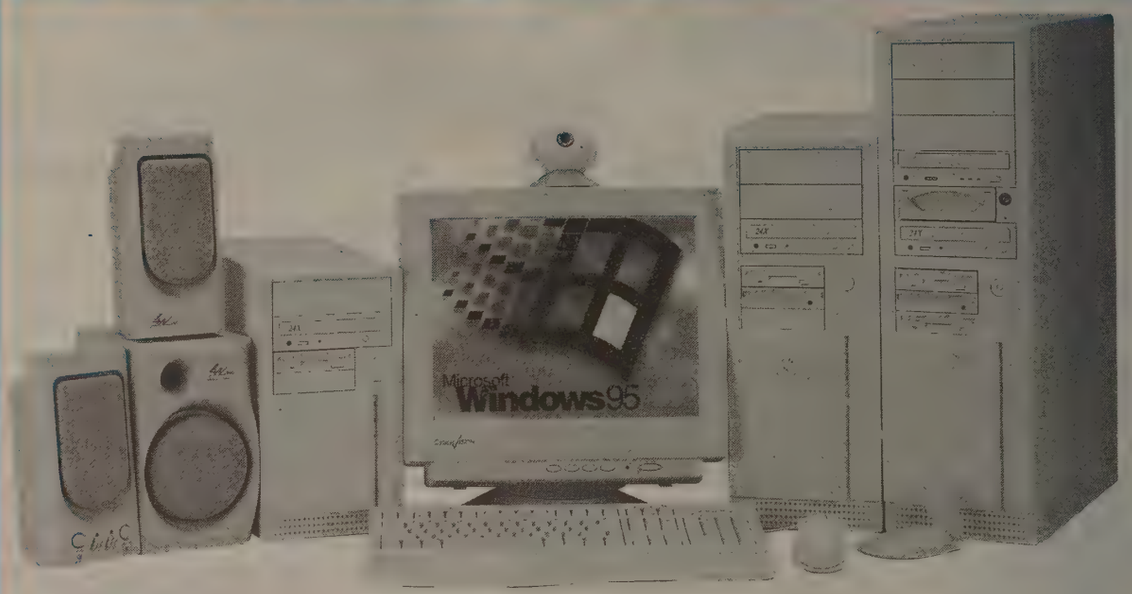


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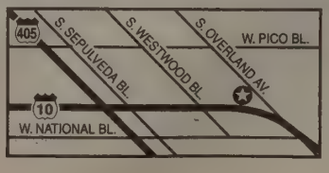

*continued from page 58*

All hardware IP Telephony products have one thing in common, however. They're pricey, from about $200 to $300, compared to standard phone instruments that now go for as low as $20. How many long-distance calls will it take to amortize the cost of a Net phone, especially if you have to supply the devices to some of the people you call regularly?

### The Promise: Move Over, MCI & AT&T!

The lack of interoperability looms as an immediate threat to IP Telephony, and not just at the desktop or PC-based hardware level. I suspect technology can overcome the time lags, bandwidth shortages (DSL, cable, whatever?), and inconveniences of placing calls. The strides made in just two years prove that is not only possible, but probable.

The interoperability situation is reminiscent of the bad old days (late 1970s, early 1980s) of proprietary operating systems, including CP/M and DOS. Microcomputers could not talk to each other any more than an InfoTalk can to an Aplio/Phone. It wasn't until standardized operating systems came along that micros began selling in respectable quantities (although the numbers were still minute compared to sales today).

I doubt that lack of standards will continue too long, however. Some cor-

*continued on page 218*

### Internet Telephony Glossary

**Access Charge.** Fee charged subscribers or other telephone companies by a local exchange carrier for the use of its local exchange network facilities

**ACTA.** America's Carriers Telecommunications Association; trade lobbying group for traditional telephone companies.

**ATM.** Asynchronous Transfer Mode; form of data transmission based on fixed-length packets, or cells, that carry data, voice and video. This technology combines benefits of circuit switching and packet switching.

**Circuit Switching.** Method used in conventional telephone systems; when a call is placed and answered, a circuit opens. The circuit remains open as long as the call lasts, so no other call can use that line.

**Internet Protocol, or IP.** The address or routing mechanism used on the Internet (see TCP/IP).

**ITU.** International Telecommunication Union; international organization that develops communication standards.

**Modem.** Modulator/demodulator; communication device that converts (modulates) computer data from digital to analog form so it can be carried over standard telephone lines. Another modem is needed at the destination to convert (demodulate) the data back to digital form.

**Packet Switching.** Method used to move data on the Internet; data is broken up into small packets which co-mingle on the same line. Packets contains identifiers, address of where it came from and where its going, so they can be sorted, routed and reassembled at the delivery point. When a packet is corrupted by line noise or lost, a duplicate packet is sent.

**TCP/IP.** Transmission Control Protocol/Internet Protocol; a well-defined set of rules that govern how computers communicate with each other over the Internet.

**Transmission Control Protocol, or TCP.** Rules that control the transfer of data over the Internet (see TCP/IP).

**Telco (plural: Telcos).** Telephone company; usually reserved for large traditional carriers:

**VoIP.** Voice over IP; telephone (voice) service using the Internet Protocol.

**VON.** Voice Over Net; similar to VoIP.


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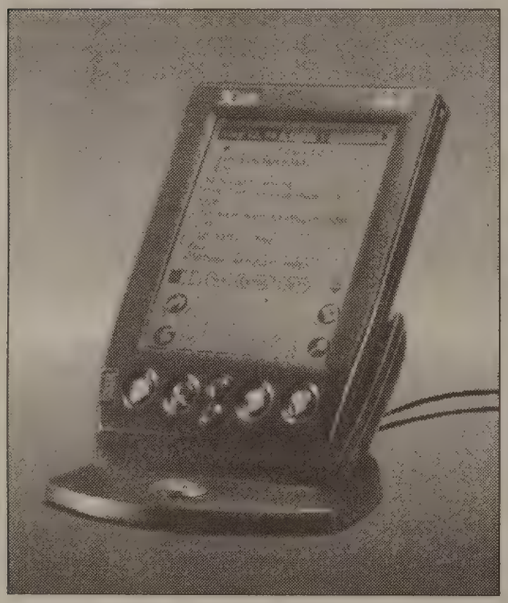
# Palm III

## *The Next Generation From 3Com*

*By Douglas J. Nakakihara*

*3Com's eagerly-awaited new Palm III is for the most part worth the wait.*



3Com's eagerly-awaited new Palm III is for the most part worth the wait, with a more elegant form factor, new applications, and much-improved file sharing capabilities among the best new features.

### What's New?

Essentially identical in size to the Pilot, the Palm III appears smaller thanks to tapered sides and a sloping button area. A new spring-loaded door hides the previously-exposed cradle contacts; the new device retains compatibility with the PalmPilot modem.

The stylus has been moved from the side to the rear to make way for the new flip-top protective cover, which essentially replaces the now unnecessary soft case. (Note that the new location makes the stylus inaccessible when using "clamp-on" devices, like the Novatel Wireless Minstrel.)

The new plastic-tipped metal stylus is much easier to write with than its predecessor—it won't fit the holders on Pilots, but can be used with them.

The all-new infrared (IR) port at the top-rear of the unit lets you "beam" data to other IR-equipped Pilots within three feet (some reports suggest that significantly greater distances are possible). The new hotsync cradle is functionally equivalent to the old version, but you can't fit a PalmPilot in it. A Palm III will work—albeit with a wobble—in the old cradle.

The Palm III doubles the PalmPilot Professional's memory with 2MB (actually 1952K) of storage. Onboard flash memory allows future system software upgrading without replacing the entire memory card, as was previously required. One downside of this change is that the old easy-access memory door is gone.

While some applications have been enhanced—e.g. more data transfer options, another available font, and better organizational capabilities—the changes are incremental rather than radical.

File linking is an especially cool new feature—it allows users to automatically import data from a file on a PC each time the organizer is synchronized with the desktop. The file can be in comma-delimited, Palm Memo Pad/Address Book, or text format, and can be sent to either the Memo Pad or Address book. This is useful for keeping company phone lists and the like current. The application installation program has also been changed to allow multiple selections of Palm applications in a single dialog box—a welcome feature.

Also included is a CD-ROM from MacMillan Digital Publishing, with an assortment of applications—a financial calculator, world clock, Web channel manager (AvantGo), drawing program, conduits to leading desktop PIMs like Symantec ACT! and Microsoft Outlook 97, plus an assortment of games.

Things that haven't changed, and possibly should have: the backlit display still suffers from a nasty glare, though the display contrast wheel has been recessed to make it less easy to move by accident. Also, there's no speed increase, as the Palm III continues to use the same exact CPU, the Motorola MC68328.

### Upgrading From Pilot

Owners of PalmPilot, Pilot 1000 and Pilot 5000 can get Palm III functionality, including 2MB of memory, infrared beaming capabilities and the Palm OS 3.0 software for $129. This also gives Palm Mail and expense tracking applications to Pilot 1000, Pilot 5000, and PalmPilot Personal users. (The Pilot 1000/5000 organizer $75 trade-up to a Palm III rebate ended June 30.)

Installation of the upgrade card is reputedly simple, requiring no tools. You just replace the original memory cover and card with new ones. The new memory cover contains the IR window.

A useful application if you're upgrading from Pilot is DB Explorer by Katsuhiro Endo. This shareware app lets you set the back-up bit for all files, including applications. (Normally, only database files are backed up when you hotsync.)

*continued on page 82*

# Taking your computer into the next Millennium

## PX Pro

- AMD K6-233 MMX
- 512K Pipeline Burst Cache
- ASUS TX Motherboard w/4MB video
- 32MB EDO Memory
- 1.44MB Floppy Drive
- 2.1GB Ultra DMA Hard Drive
- 14" SVGA Monitor
- 56K V.90 Fax/Modem w/Voice
- 24X CD-ROM IDE
- 3D Full Duplex Sound Card
- 120W Stereo Speakers
- Jumbo Mini Tower Case
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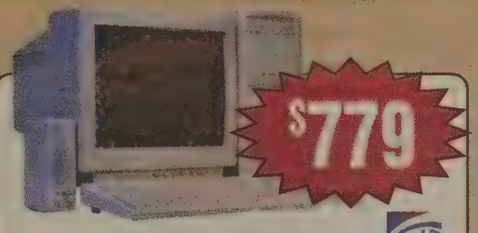
**AMD K6 266MMX .....$639**
**AMD K6 300MMX .....$664**
**AMD K6 II 266MMX .....$699**
**AMD K6 II 300 MMX.....$749**
**Upgrade to 3.2GB .....Add $20**
**Upgrade to 15" Monitor .....Add $50**




## PX2 Pro

- Intel Pentium II 233 MMX Processor
- Intel Pentium II 440LX/BX Motherboard
- 64MB SDRAM Memory
- Rival 128-Bit 4MB AGP Video Card (Same as Diamond Stealth Viper)
- 1.44MB Floppy Drive
- 4.3GB Ultra DMA Hard Drive
- 56K V.90 Fax/Modem w/Voice
- 32X CD-ROM IDE
- 3D Full Duplex Sound Card
- 120 Watt Stereo Speakers
- ATX Med Tower Case
- Lotus Suite 97
- Mouse/Keyboard

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**Pentium® II 333 MMX .....$1039**
**Pentium® II 350 MMX .....$1199**
**Pentium® II 400 MMX .....$1499**
**17" .26dp SVGA Monitor.....Add$279**
**HP 672C Printer w/Cable.....Add $199**
**30-Bit Scanner.....Add $99**

## PX2 Pro DVD

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- Intel Pentium II 440LX/BX Motherboard
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- ATI Xpert@Play AGP Video Card
- 1.44MB Floppy Drive
- 6.4GB Ultra DMA Hard Drive
- 56K V.90 Fax/Modem w/Voice
- 2nd Generation DVD-ROM
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- Mouse/Keyboard

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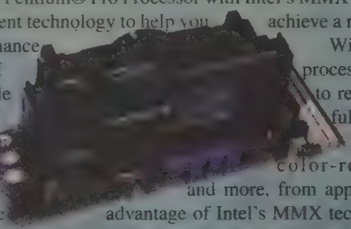

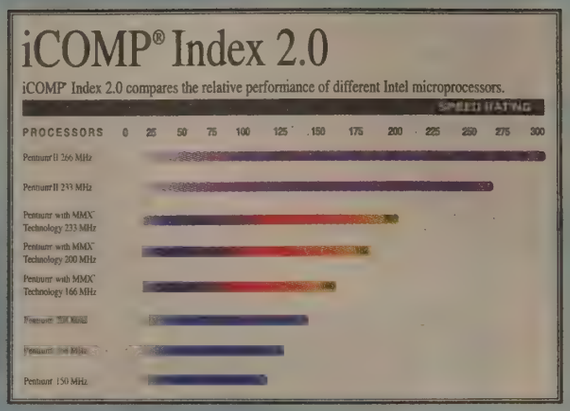
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| $729 | $699 |
| Pentium® II 266 Celeron | K6-266 MMX |
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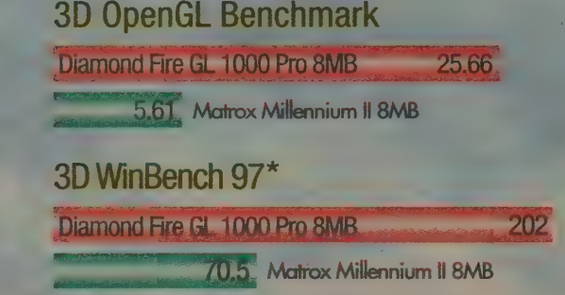
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5.61 Matrox Millennium II 8MB
3D WinBench 97*
Diamond Fire GL 1000 Pro 8MB 202
70.5 Matrox Millennium II 8MB

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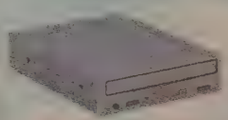

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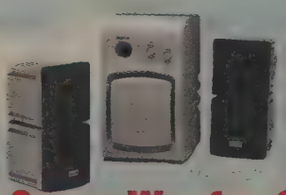

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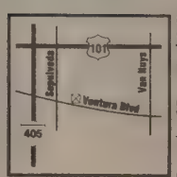


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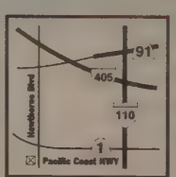


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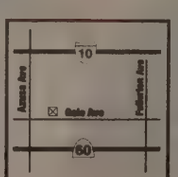


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| 689 | Supporting Microsoft Windows NT Server 4.0 - Enterprise Technologies | 40 | $995 | + | + | | |
| 688 | Internetworking Microsoft TCP/IP on Microsoft Windows NT 4.0 | 40 | $995 | 2 | + | | + |
| 936 | Creating and Configuring a Web Server Using Microsoft Internet Information Server 4.0 | 24 | $795 | 2 | + | | + |
| 771 | Core Technologies of Microsoft Exchange Server 5.0 | 40 | $995 | 2 | + | | |
| 832 | System Administration for Microsoft SQL Server 7.0 | 40 | $995 | 2 | + | | |
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|---|---|---|---|---|---|---|---|
| | | **27th -31st** | | | | | |
| 1 | 1 | 6:00-10:00 | #578: Networking Essentials | | | | |
| | | **August** | Monday | Tuesday | Wednesday | Thursday | Friday |
| | | **3rd - 7th** | | | | | |
| 1 | 1 | 1:00-5:00 | #578: Networking Essentials | | | | |
| | + | 6:00-10:00 | #798: Supporting Windows 95 | | | | |
| | | **10th - 14th** | | | | | |
| + | | 8:30-5:00 | #798: Supporting Windows 95 | | | | |
| | + | 6:00-10:00 | #798: Supporting Windows 95 | | | | |
| | | **17th - 21st** | | | | | |
| + | | 8:30-5:00 | #983: Accelerated Training for Windows NT 4.0 | | | | |
| | + | 6:00-10:00 | #983: Accelerated Training for Windows NT 4.0 | | | | |
| | | **24th - 28th** | | | | | |
| + | | 8:30-5:00 | #689: Supporting Windows NT 4.0 - Enterprise Technologies | | | | |
| | + | 6:00-10:00 | #983: Accelerated Training for Windows NT 4.0 | | | | |
| | | **Sept** | Monday | Tuesday | Wednesday | Thursday | Friday |
| | | **31st - 4th** | | | | | |
| + | | 8:30-5:00 | #688: Internetworking TCP/IP on Windows NT 4.0 | | | | |
| | + | 6:00-10:00 | #689: Supporting Windows NT 4.0 - Enterprise Technologies | | | | |
| | | **7th - 11th** | | | | | |
| + | | 8:30-5:00 | #936: Creating and Managing a Web Server using IIS 4.0 | | | #956: Implementing Internet Explorer 4.0 | |
| | + | 6:00-10:00 | #689: Supporting Windows NT 4.0 - Enterprise Technologies | | | | |
| | | **14th - 18th** | | | | | |
| + | | 8:30-5:00 | #771: Core Technologies of Exchange Server 5.0 | | | | |
| | + | 6:00-10:00 | #688: Internetworking TCP/IP on Windows NT 4.0 | | | | |
| | | **21st - 25th** | | | | | |
| + | | 8:30-5:00 | #832: System Administration for SQL Server 7.0 | | | | |
| | + | 6:00-10:00 | #688: Internetworking TCP/IP on Windows NT 4.0 | | | | |

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## MegaBook XL

- 12.1" Active Matrix 800x600 Screen
- 256K Pipeline Burst Cache
- 32MB Hi-Performance EDO RAM
- PCI MPEG Video 2MB EDO RAM
- 2.1GB EIDE Hard Drive
- 1.44MB Floppy Drive
- 20X CD-ROM Drive
- 3D Full-Duplex Surround Sound
- Dual Built-in Speakers & Microphone
- Touch-Pad Pointing Device
- PCMCIA 2xType II or 1xType III
- IrDA Wireless Infra-Red Data Transfer
- Hi-Speed Serial / Parallel Port
- NiMH Battery & Carrying Case
- Microsoft Windows 98'

**Pentium®233 MMX**

**$1599**

## ThunderBook

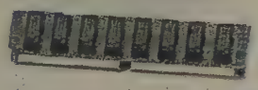
- 14.2" Active Matrix XGA 1024x768
- 512K Pipeline Burst Cache
- 64MB Hi-Performance EDO RAM
- PCI MPEG Video 4MB EDO RAM
- 3.2GB Ultra ATA Hard Drive
- 1.44MB Floppy Drive
- 24X CD-ROM Drive
- 3D 64 Wavetable Full-Duplex Surround Sound
- Dual Built-in Speakers & Microphone
- Touch-Pad Pointing Device
- PCMCIA 2xType II or 1xType III
- 32bit Card Bus & Zoomed Video Support
- Hi-Speed Serial / Parallel Port / IrDA / USB Ports
- Lithon-Ion Battery
- Microsoft Windows 98'

**Pentium®233 MMX $2499**

**AMD K6-300 MMX $2599**

**Pentium®II 266 $2999**

### Memory Upgrade



32MB-64MB $129.99

64MB-128MB $299.99

### Hard Drive Upgrade

2.1GB-3.2GB $79.99

3.2GB-5.0GB $349.99

### PCMCIA Modem

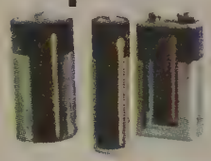
33.6 Fax Modem $ 89.99

56K Fax Modem $129.99

Ethernet Combo Card $89.99

33.6 & Ethernet $229.99

### Battery Option



NiMH $109.99

Lithon-Ion $199.99

### Options

Car Adapter $ 79.99

AC Adapter $109.99

Port Replicator $149.99

**ThunderBook Only**

ZIP Drive $299.99

DVD-ROM $399.99

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4MB EDO RAM

- Outrageously Fast 3D Graphics
- MPEG Playback Video

**$59.99**

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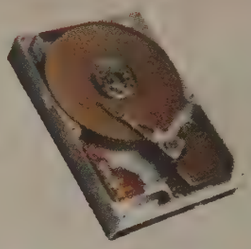
FUJITSU

## 3.2GB
Ultra ATA



- 10ms Access Time
- 256K Buffer
- 33MB/Sec Ultra DMA
- 5400 RPM
- 3 Year mfg. Warranty

**$129.99**

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## Mini Tower Case
w/230W

**$21.99**

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## Intel Pentium 233 MMX CPU
## 512K Pipeline Burst Cache
## Ball Bearing CPU Fan

MMX intel inside pentium PROCESSOR

**$179.99**

Limit One, While Supplies Last

## 6x86 M2-300MX+ CPU
## 512K Pipeline Burst Cache
## Ball Bearing CPU Fan

Cyrix 6x86MX PROCESSOR

**$179.99**

Limit One, While Supplies Last

## 32X CD-ROM

- 120ms Access Time
- 128K Buffer
- 4.8MB/Sec Transfer

**$49.99**

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## ViewSonic
E771

- 17" 1280x1024, .27mm
- 87Hz @ 1024x768
- On-Screen Display, PnP
- 3 Year Warranty

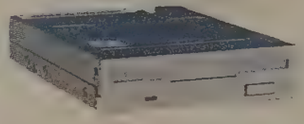
**$329.99**

Limit One, While Supplies Last

zip 100 IDE

iomega

## Internal IDE



**$79.99**

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## 56K
Voice Fax Modem

- Internal Voice Fax Data
- Rockwell Chipset
- V.90 ITU Upgradeable

K56 CONNECT Rockwell

**$49.99**

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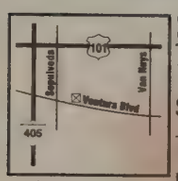

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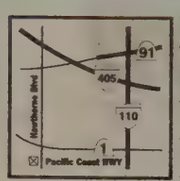

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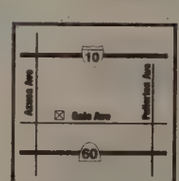

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# CPU, MEMORY, MOTHERBOARDS

## 64 MB Memory

16x32 EDO or 16x32

**$139.99**

## 32 MB Memory

8x32 EDO or 8x32-60

**$35.99**

## 16 MB Memory

4x32 EDO or 4x32-60

**$19.99**

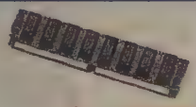
## 8 MB Memory

2x32 EDO or 2x32-60

**$14.99**

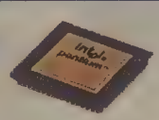
## SDRAM

Synchronous Dynamic RAM



| | |
|---|---|
| 4X64 (32MB DIMM) | $ 39.99 |
| 8X64 (64MB DIMM) | $ 89.99 |
| 16X64 (128MB DIMM) | $169.99 |
| 4X64 100MHz (32MB DIMM) | $ 59.99 |
| 8X64 100MHz (64MB DIMM) | $109.99 |
| 16X64 100MHz (128MB DIMM) | $209.99 |

## intel®



MMX intel inside pentium II

| | | | |
|---|---|---|---|
| Pentium II 400 | $729.99 | Pentium II 233 | $189.99 |
| Pentium II 350 | $529.99 | Pentium II 300 Celeron | $189.99 |
| Pentium II 333 | $429.99 | Pentium II 266 Celeron | $129.99 |
| Pentium II 300 | $329.99 | Pentium 233 MMX | $129.99 |
| Pentium II 266 | $229.99 | Pentium 200 MMX | $109.99 |

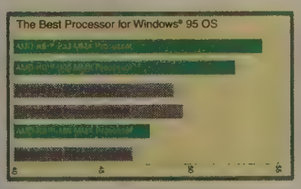
## AMD K6 MMX PROCESSOR

## Cyrix 6x86MX PROCESSOR

| | | | |
|---|---|---|---|
| AMD K6-2 300 | $ 199.99 | 6x86MX P300+ | $ 129.99 |
| AMD K6-2 266 | $ 149.99 | 6x86MX P266+ | $ 109.99 |
| AMD K6-300 | $ 159.99 | 6x86MX P233+ | $ 79.99 |
| AMD K6-266 | $ 119.99 | | |
| AMD K6-233 | $ 89.99 | 6x86MX P200+ | $ 69.99 |

## AMD K6 MMX PROCESSOR

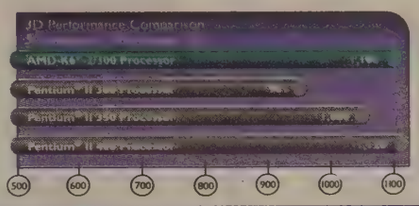
**AMD K6 Processor**
**Intel Triton TX Motherboard**
**512K Pipeline Burst Cache**




| | |
|---|---|
| K6-233 MMX | $159.99 |
| K6-266 MMX | $189.99 |
| K6-300 MMX | $229.99 |

## AMD K6-2 3DNOW!

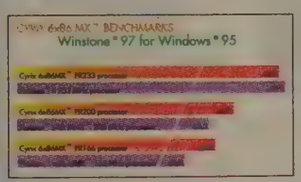
**AMD K6-2 300 Processor w/3D**
**100MHz AGP Motherboard**
**512K Pipeline Burst Cache**




**$299.99**

## Cyrix 6x86MX PROCESSOR

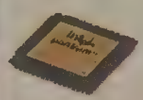
**6x86MX Processor**
**Intel Triton TX Motherboard**
**512K Pipeline Burst Cache**




| | |
|---|---|
| 6x86MX-200 | $139.99 |
| 6x86MX-233 | $149.99 |
| 6x86MX-266 | $179.99 |
| 6x86MX-300 | $199.99 |

## MMX intel inside pentium

**Intel Pentium® MMX Processor**
**Intel Triton TX Motherboard**
**512K Pipeline Burst Cache**



| | |
|---|---|
| Pentium® 166 MMX | $179.99 |
| Pentium® 200 MMX | $179.99 |
| Pentium® 233 MMX | $199.99 |

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# MOTHERBOARDS

## intel® Seattle

- New 440BX 100 MHz AGP chipset
- Pentium II 233-400MHz+, ATX
- 3x168-Pin DIMM, 384MB Max
- 4xPCI / 2xISA / 1xAGP Slots
- On-Board Crystal Sound Card

| intel | 233 | 266 | 300 |
|---|---|---|---|
| | ~~$379~~ | ~~$419~~ | ~~$519~~ |
| | 333 | 350 | 400 |
| | ~~$619~~ | ~~$719~~ | ~~$919~~ |

**$189.99**

## intel® Nightshade

- New 440BX 100MHz AGP chipset
- Dual Pentium II, 233-400MHz+
- 4x168-Pin DIMM, 1GB Max
- On Board Adaptec UW SCSI
- On Board Video w/ 2MB SGRAM
- On Board 10/100 Network Card

| intel | 300 | 333 | 350 |
|---|---|---|---|
| | ~~$1029~~ | ~~$1129~~ | ~~$1229~~ |
| | 400 | 350x2 | 400x2 |
| | ~~$1429~~ | ~~$1759~~ | ~~$2159~~ |

**$699.99**

## ASUS P2B-D

- New 440BX 100MHz AGP Chipset
- Dual Pentium II 233-400MHz+
- 4x168-Pin DIMM, 1GB Max
- 4xPCI / 2xISA / 1xAGP slots
- Ultra DMA / 33, ATX Form Factor

| intel | 300 | 333 | 350 |
|---|---|---|---|
| | ~~$679~~ | ~~$779~~ | ~~$879~~ |
| | 400 | 350x2 | 400x2 |
| | ~~$1079~~ | ~~$1409~~ | ~~$1809~~ |

**$349.99**

## ASUS P2B

- New 440BX 100 MHz AGP chipset
- Pentium II 233-400MHz+
- 3x168-Pin DIMM, 384MB Max
- 5xPCI / 2xISA / 1xAGP Slots
- Ultra DMA/33, ATX Form Factor

| intel | 233 | 266 | 300 |
|---|---|---|---|
| | ~~$379~~ | ~~$419~~ | ~~$499~~ |
| | 333 | 350 | 400 |
| | ~~$599~~ | ~~$699~~ | ~~$899~~ |

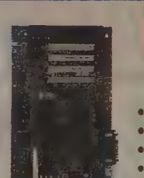
**$169.99**

## ASUS P2B-S

- New 440BX 100MHz AGP Chipset
- Pentium II 233-400MHz+
- 4x168-Pin DIMM, 1GB Max
- 4xPCI / 2xISA / 1xAGP slots
- Ultra DMA / 33, ATX Form Factor
- Adaptec Ultra2 Wide SCSI (80MB/Sec)

| intel | 233 | 266 | 300 |
|---|---|---|---|
| | ~~$519~~ | ~~$559~~ | ~~$659~~ |
| | 333 | 350 | 400 |
| | ~~$759~~ | ~~$859~~ | ~~$1059~~ |

**$329.99**



## ASUS P2B-DS

- New 440BX 100MHz AGP Chipset
- Dual Pentium II 233-400MHz+
- 4x168-Pin DIMM, 1GB Max
- 4xPCI / 2xISA / 1xAGP slots
- Ultra DMA / 33, ATX Form Factor
- Adaptec Ultra2 Wide SCSI (80MB/Sec)

| intel | 300 | 333 | 350 |
|---|---|---|---|
| | ~~$809~~ | ~~$909~~ | ~~$1009~~ |
| | 400 | 350x2 | 400x2 |
| | ~~$1209~~ | ~~$1539~~ | ~~$1939~~ |

**$479.99**

## ASUS TX97-LE

512K Pipeline Burst Cache

- Intel Triton TX Chipset, 75-300MHz
- Pentium, MMX, 6x86, M2, AMD K5, K6
- 2x168-Pin & 4x72-Pin SIMM
- 3xISA & 4xPCI / 1x Media Bus
- Dual Ultra33 EIDE & Hi-Speed I/O

| intel | 166MMX | 200MMX | 233MMX |
|---|---|---|---|
| | ~~$229~~ | ~~$239~~ | ~~$249~~ |
| AMD K6 | K6-233 | K6-266 | K6-300 |
| | ~~$269~~ | ~~$299~~ | ~~$379~~ |
| 6x86 | 233MX | 266MX | 300MX |
| | ~~$199~~ | ~~$229~~ | ~~$249~~ |

**$119.99**

## ASUS TX97L

512K Pipeline Burst Cache

- Intel Triton 430TX Chipset, 75-300MHz
- Pentium, MMX, 6x86, M2, AMD K5, K6
- 3x168-Pin SDRAM DIMM, 128MB Max
- 4xPCI / 3xISA / IxMediaBus
- Dual Ultra33 EIDE & Hi-Speed I/O

| intel | 166MMX | 200MMX | 233MMX |
|---|---|---|---|
| | ~~$229~~ | ~~$229~~ | ~~$249~~ |
| AMD K6 | K6-233 | K6-266 | K6-300 |
| | ~~$209~~ | ~~$239~~ | ~~$279~~ |
| 6x86 | 233MX | 266MX | 300MX |
| | ~~$199~~ | ~~$229~~ | ~~$249~~ |

**$119.99**

## ASUS TXP4

512K Pipeline Burst Cache

- Intel Triton 430TX Chipset, 75-300MHz
- Pentium, MMX, 6x86, M2, AMD K5, K6
- 2x168-Pin & 4x72-Pin SIMM
- 3xISA / 4xPCI slots
- Dual Ultra33 EIDE & Hi-Speed I/O

| intel | 166MMX | 200MMX | 233MMX |
|---|---|---|---|
| | ~~$209~~ | ~~$209~~ | ~~$229~~ |
| AMD K6 | K6-233 | K6-266 | K6-300 |
| | ~~$189~~ | ~~$219~~ | ~~$259~~ |
| 6x86 | 233MX | 266MX | 300MX |
| | ~~$179~~ | ~~$209~~ | ~~$229~~ |

**$99.99**

## Iwill XA100

512K Pipeline Burst Cache

- Aladin 100MHz AGP chipset, 75-400MHz
- Pentium, MMX, M2, AMD K6, K6-2
- 3x168-Pin DIMM, 768MB Max
- 3xISA / 4xPCI / 1xAGP Slots
- ATX Form Factor

| intel | 166MMX | 200MMX | 233MMX |
|---|---|---|---|
| | ~~$219~~ | ~~$219~~ | ~~$239~~ |
| AMD K6 | K6-266 | K6-300 | K6-2300 |
| | ~~$259~~ | ~~$289~~ | ~~$309~~ |
| 6x86 | 233MX | 266MX | 300MX |
| | ~~$189~~ | ~~$219~~ | ~~$239~~ |

**$109.99**

## Iwill DBL100

- Intel 440BX 100MHz AGP Chipset
- Dual Pentium II 233-400MHz+
- Adaptec 2940 Ultra 2 Wide (80MB/sec)
- 4x168-Pin DIMM, 1GB Max
- 2xISA / 4xPCI / 1xAGP Slots

| intel | 300 | 333 | 350 |
|---|---|---|---|
| | ~~$789~~ | ~~$889~~ | ~~$989~~ |
| | 400 | 350x2 | 400x2 |
| | ~~$1189~~ | ~~$1519~~ | ~~$1919~~ |

**$459.99**

## Iwill BS100

- Intel 440BX 100 MHz AGP Chipset
- Pentium II 233-400MHz +
- Dual Channel Adaptec 3940UW
- 4x168-Pin DIMM, 512MB Max
- 5xPCI / 2xISA / 1xAGP Slots

| intel | 233 | 266 | 300 |
|---|---|---|---|
| | ~~$489~~ | ~~$529~~ | ~~$629~~ |
| | 333 | 350 | 400 |
| | ~~$729~~ | ~~$829~~ | ~~$1029~~ |

**$299.99**

## ABIT TX5

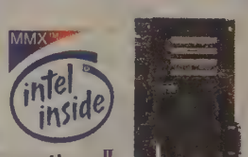
Your Reliable Partner

512K Pipeline Burst Cache

- Intel Triton 430TX Chipset, 75-300MHz
- Pentium, MMX, 6x86, M2, AMD K5, K6
- 2x168-Pin DIMM & 4x72-Pin SIMM
- 4xPCI / 3xISA Slots
- Dual Ultra33 EIDE & Hi-Speed I/O

| intel | 166MMX | 200MMX | 233MMX |
|---|---|---|---|
| | ~~$199~~ | ~~$199~~ | ~~$219~~ |
| AMD K6 | K6-233 | K6-266 | K6-300 |
| | ~~$179~~ | ~~$199~~ | ~~$249~~ |
| 6x86 | 200MX | 233MX | 266MX |
| | ~~$159~~ | ~~$169~~ | ~~$199~~ |

**$89.99**



## ABIT BX6

Your Reliable Partner

- Pentium II 233-400MHz +
- New 440BX 100MHz AGP Chipset
- AGP, SDRAM, Ultra DMA Support
- 4x 168-Pin DIMM
- 4x PCI / 3xISA / AGP Slots

| intel | 233 | 266 | 300 |
|---|---|---|---|
| | ~~$359~~ | ~~$399~~ | ~~$499~~ |
| | 333 | 350 | 400 |
| | ~~$599~~ | ~~$699~~ | ~~$899~~ |

**$169.99**

## ABIT LX6

Your Reliable Partner

- Pentium II 233-333MHz +
- New 440LX AGP Chipset
- AGP, SDRAM, Ultra DMA Support
- 4x 168-Pin DIMM
- 4x PCI / 3xISA / AGP Slots

| intel | 266Celeron | 300Celeron | 233 |
|---|---|---|---|
| | ~~$249~~ | ~~$309~~ | ~~$309~~ |
| | 266 | 300 | 333 |
| | ~~$349~~ | ~~$449~~ | ~~$549~~ |

**$119.99**

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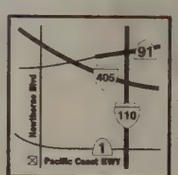


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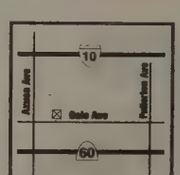


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# MOTHERBOARDS

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## P6DBS

- New 440BX 100MHz chipset
- Dual Pentium II 233-400MHz +
- 4x168-Pin DIMM
- 4xPCI / 3xISA / 1xAGP Slots
- Adaptec 3940UW & Raid Bus

| intel | 300 $759 | 333 $859 | 350 $959 |
|---|---|---|---|
| | 400 $1159 | 350x2 $1489 | 400x2 $1889 |

**$429.99**

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## P6SBA

- New 440BX 100MHz AGP chipset
- Pentium II 233-400MHz +
- 3x168-Pin DIMM
- 4xPCI / 3xISA / 1xAGP Slots

| intel | 233 $339 | 266 $379 | 300 $479 |
|---|---|---|---|
| | 333 $579 | 350 $679 | 400 $879 |

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## P6SLA

- Pentium II 233-333MHz +
- New 440LX AGP Chipset
- AGP, SDRAM, Ultra DMA Support
- 3x 168-Pin DIMM
- 4x PCI / 3xISA / AGP Slots

| intel | 266Celeron $249 | 300Celeron $309 | 233 $309 |
|---|---|---|---|
| | 266 $349 | 300 $449 | 333 $549 |

**$119.99**

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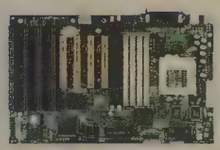
## P6SBS

- New 440BX 100MHz chipset
- Pentium II 233-400MHz +
- 4x168-Pin DIMM
- 4xPCI / 3xISA / 1xAGP Slots
- Adaptec Dual Channel 3940 Ultra Wide SCSI

| intel | 233 $479 | 266 $519 | 300 $619 |
|---|---|---|---|
| | 333 $719 | 350 $819 | 400 $1019 |

**$289.99**



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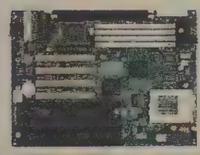
## P5MMA98

512K Pipeline Burst Cache

- Intel 430TX, 75-300MHz, ATX Form Factor
- Pentium, MMX, 6x86, M2, AMD K5, K6
- 4x72-Pin SIMM & 2x168-Pin DIMM
- 4xPCI / 4xISA Slots
- Dual Ultra33 EIDE & Hi-Speed I/O

| intel | 166MMX $219 | 200MMX $219 | 233MMX $239 |
|---|---|---|---|
| AMD K6 | K6-233 $199 | K6-266 $229 | K6-300 $269 |
| 6x86 | 200MX $179 | 233MX $189 | 266MX $219 |

**$109.99**



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## P5MMS98

512K Pipeline Burst Cache

- Intel Triton 430TX, 75-300MHz
- Pentium, MMX, 6x86, M2, AMD K5, K6
- 4x72-Pin SIMM & 2x168-Pin DIMM
- 4xPCI / 4xISA Slots
- Dual Ultra33 EIDE & Hi-Speed I/O

| intel | 166MMX $209 | 200MMX $209 | 233MMX $229 |
|---|---|---|---|
| AMD K6 | K6-233 $189 | K6-266 $219 | K6-300 $259 |
| 6x86 | 200MX $169 | 233MX $179 | 266MX $209 |

**$99.99**

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## Tsunami

- New Intel 440BX 100MHz chipset
- Pentium II 233-400MHz+
- 4x168-Pin DIMM
- 5xPCI / 2xISA / AGP slots
- Ultra DMA/33, ATX Form Factor

| intel | 233 $349 | 266 $389 | 300 $489 |
|---|---|---|---|
| | 333 $589 | 350 $689 | 400 $889 |

**$159.99**

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## Dual Tomcat IV

512K Pipeline Burst Cache

- Intel Triton 430HX, 75-233MHz
- Supports Single or Dual Processor
- Pentium, MMX, 6x86, AMD K5
- 8x72-Pin SIMM, 256MB Max
- 4xPCI / 5xISA Slots

| intel | 200MMX $289 | 233MMX $309 | 233x2 $439 |
|---|---|---|---|
| AMD K6 | K6-200 $259 | K6-233 $269 | K6-266 N/A |
| 6x86 | 200MX $249 | 233MX N/A | 266MX N/A |

**$179.99**

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## Titan Turbo AT-2
## Titan Turbo ATX-2

512K Pipeline Burst Cache

- Intel Triton TX, 75-266MHz
- Pentium, MMX, 6x86, AMD K5, K6
- 6x72-Pin SIMM, 2x168-Pin DIMM
- 4xPCI / 4xISA Slots
- Dual Ultra33 EIDE & Hi-Speed I/O

| intel | 166MMX $209 | 200MMX $209 | 233MMX $229 |
|---|---|---|---|
| AMD K6 | K6-200 $179 | K6-233 $189 | K6-266 N/A |
| 6x86 | 200MX $169 | 233MX $179 | 266MX N/A |

**$99.99**

AGP ACCELERATED GRAPHICS PORT 100MHz

FIC

## VA503+

1MB Pipeline Burst Cache

- VIA Apollo Chipset, 75-300MHz
- Pentium, MMX, 6x86, M2, AMD K5, K6
- 2x168-Pin & 4x72-Pin SIMM
- 3xISA / 3xPCI / AGP Slots
- Dual Ultra33 EIDE & Hi-Speed I/O

| intel | 166MMX $219 | 200MMX $219 | 233MMX $239 |
|---|---|---|---|
| AMD K6 | K6-266 $229 | K6-300 $269 | K6-2300 $309 |
| 6x86 | 233MX $189 | 266MX $219 | 300MX $239 |

**$109.99**

intel® Chipset

## 440BX AGP

- Pentium II 233-400MHz+
- New 440BX 100MHz AGP Chipset
- 3x168-Pin DIMM
- 4xPCI / 3xISA / AGP Slots
- ATX Form Factor

| intel | 233 $319 | 266 $359 | 300 $459 |
|---|---|---|---|
| | 333 $559 | 350 $659 | 400 $859 |

**$129.99**

intel® Chipset

## 440LX AGP

- Pentium II 233-333MHz
- New 440LX AGP Chipset
- 3x168-Pin DIMM
- 4xPCI / 3xISA / AGP Slots
- ATX Form Factor

| intel | 266Celeron $219 | 300Celeron $279 | 233 $279 |
|---|---|---|---|
| | 266 $319 | 300 $419 | 333 $519 |

**$89.99**

## VX Pro

512K Pipeline Burst Cache

- VX Pro Chipset, 75-300MHz
- Pentium, MMX, 6x86, M2, AMD K5, K6
- 4x72-Pin SIMM, 2x168-Pin DIMM
- 3xPCI / 2xISA Slots
- Dual Ultra33 EIDE & Hi-Speed I/O

| intel | 166MMX $169 | 200MMX $169 | 233MMX $189 |
|---|---|---|---|
| AMD K6 | K6-233 $149 | K6-266 $179 | K6-300 $219 |
| 6x86 | 233MX $139 | 266MX $169 | 300MX $189 |

**$59.99**

AGP ACCELERATED GRAPHICS PORT

## VIA Apollo

1MB Pipeline Burst Cache

- VIA Apollo VP3 chipset, 75-300MHz
- Pentium, MMX, 6x86, M2, AMD K5, K6
- 4x72-Pin SIMM, 2x168-Pin DIMM
- 4xPCI / 3xISA / AGP Slots
- Dual Ultra33 EIDE & Hi-Speed I/O

| intel | 166MMX $189 | 200MMX $189 | 233MMX $209 |
|---|---|---|---|
| AMD K6 | K6-200 $159 | K6-233 $169 | K6-266 N/A |
| 6x86 | 233MX $159 | 266MX $189 | 300MX $209 |

**$79.99**

intel® Chipset

## Intel Triton TX

512K Pipeline Burst Cache

- Intel Triton 430TX, 75-300MHz
- Pentium, MMX, 6x86, M2, AMD K5 & K6
- 4x72-Pin SIMM, 2x168-Pin DIMM
- 4xPCI / 3xISA Slots
- Dual Ultra33 EIDE & Hi-Speed I/O

| intel | 166MMX $179 | 200MMX $179 | 233MMX $199 |
|---|---|---|---|
| AMD K6 | K6-233 $159 | K6-266 $189 | K6-300 $229 |
| 6x86 | 233MX $149 | 266MX $179 | 300MX $199 |

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- 11ms Access Time
- 128K Buffer
- 3 Year Warranty

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## WESTERN DIGITAL
### 2.5GB Ultra ATA

- WD 22500A
- 33MB/sec Ultra DMA
- 11ms Access Time
- 128K Buffer
- 3 Year Warranty

**$135.99**

## WESTERN DIGITAL
### 3.2GB Ultra ATA

- WD 23200A
- 33MB/sec Ultra DMA
- 10ms Access Time
- 128K Buffer
- 3 Year Warranty

**$139.99**

## WESTERN DIGITAL
### 4.3GB Ultra ATA

- WD 34300A
- 33MB/sec Ultra DMA
- 10ms Access Time
- 256K Buffer
- 3 Year Warranty

**$159.99**

## WESTERN DIGITAL
### 6.4GB Ultra ATA

- WD 36400A
- 33MB/sec Ultra DMA
- 9.5ms Access Time
- 256K Buffer
- 3 Year Warranty

**$199.99**

## WESTERN DIGITAL
### 8.4GB Ultra ATA

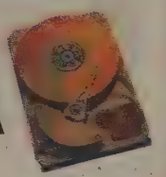
- WD 38400A
- 33MB/sec Ultra DMA
- 9.5ms Access Time
- 256K Buffer
- 3 Year Warranty

**$249.99**

## IBM
### 6.4GB Ultra ATA

- DHEA 34680A
- 33MB/sec Ultra DMA
- 9.5ms Access Time
- 512K Buffer
- 5400 RPM
- 3 Year Warranty

**$199.99**

## IBM
### 8.4GB Ultra ATA

- DHEA 34800A
- 9.5ms Access Time
- 33 MB/sec Ultra DMA
- 512K Buffer
- 5400 RPM
- 3 Year Warranty

**$259.99**

## IBM
### 10.0GB Ultra ATA

- DTTA 371010A
- 9ms Access Time
- 33 MB/sec Ultra DMA
- 512K Buffer
- 7200 RPM
- 3 Year Warranty

**$399.99**

## IBM
### 14.0GB Ultra ATA

- DTTA 341440A
- 9ms Access Time
- 33 MB/sec Ultra DMA
- 512K Buffer
- 7200 RPM
- 3 Year Warranty

**$649.99**

## Quantum
### 8.0GB Ultra ATA

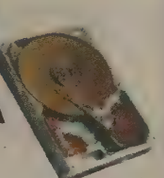
- Bigfoot Q50800TX-A
- 33MB/sec Ultra DMA
- 11ms Access Time
- 128K Buffer
- 3 Year Warranty

**$229.99**

## Quantum
### 12.0GB Ultra ATA

- Bigfoot Q51200 TX-A
- 33MB/sec Ultra DMA
- 11ms Access Time
- 128K Buffer
- 3 Year Warranty

**$339.99**

## Maxtor®
### 4.3GB Ultra ATA

- MX84320
- 33 MB/sec Ultra DMA
- 10ms Access Time
- 256K Buffer
- 5400 RPM
- 3 Year Warranty

**$149.99**

## Maxtor®
### 8.4GB Ultra ATA

- MX88400
- 33 MB/sec Ultra DMA
- 10ms Access Time
- 256K Buffer
- 5400 RPM
- 3 Year Warranty

**$239.99**

## Maxtor®
### 11.5GB Ultra ATA

- MX9115278
- 33 MB/sec Ultra DMA
- 10ms Access Time
- 256K Buffer
- 5400 RPM
- 3 Year Warranty

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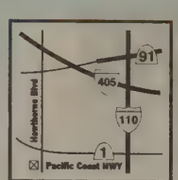


**Torrance**
24231 Hawthorne Blvd.,
Torrance, CA 90505
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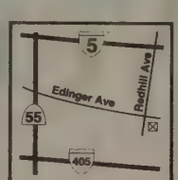


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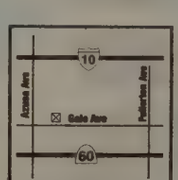
Fax:(714)258-2627




**Industry**
17405 Gale Ave.,
Industry, CA 91748
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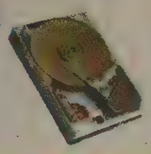
Fax:(626)965-9608

# SCSI HARD DRIVES & STORAGE

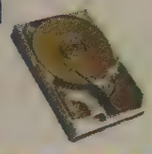
## Quantum 3.2GB SCSI-2 Ultra SCSI



- 10ms Access Time
- 128K Buffer
- 20MB/sec Transfer Rate
- 3 Year Warranty

**$249.99**

## Quantum 6.4GB SCSI-2 Ultra SCSI



- 9ms Access Time
- 256K Buffer
- 20MB/sec Transfer Rate
- 3 Year Warranty

**$379.99**

## IBM 4.3GB UW Ultra Wide SCSI

- 8ms Access Time
- 5400 RPM
- 512K Buffer
- 40MB/sec Transfer Rate
- 3 Year Warranty

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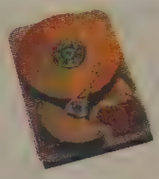
## IBM 9.1GB UW Ultra Wide SCSI



- 8ms Access Time
- 7200 RPM
- 512K Buffer
- 40MB/sec Transfer Rate
- 3 Year Warranty

**$649.99**

## Seagate Barracuda Ultra Wide SCSI

| | |
|---|---|
| 4.5GB ST34572W | $549.99 |
| 9.1GB ST39173W | $799.99 |
| 18GB ST118273W | $1499.99 |

- 7.5ms Access Time
- 512K Buffer
- 40MB/sec Transfer
- 7200 RPM

## Seagate Barracuda Ultra-2 Wide SCSI

| | |
|---|---|
| 4.5GB ST34573LW | $649.99 |
| 9.1GB ST39173LW | $899.99 |
| 18GB ST118273LW | $1599.99 |

- 7.5ms Access Time
- 512K Buffer
- 80MB/sec Transfer
- 7200 RPM

## Seagate Cheetah Ultra Wide SCSI

| | |
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| 4.5GB ST34501W | $649.99 |
| 9.1GB ST19101W | $949.99 |

- 7.5ms Access Time
- 512K Buffer
- 40MB/sec Transfer
- 10000 RPM

## Seagate Cheetah Ultra-2 Wide SCSI

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| 4.5GB ST34502LW | $899.99 |
| 9.1GB ST39102LW | $1099.99 |
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- 7.5ms Access Time
- 512K Buffer
- 80MB/sec Transfer
- 10000 RPM

## Adaptec

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| 2940 UW<br>PCI-to-Fast Ultra Wide SCSI<br>40 MB/Sec Transfer, Bus Mastering | $199.99 |
| 2940 Ultra-2 Wide<br>PCI-to-Fast Ultra Wide SCSI<br>80 MB/Sec Transfer, Bus Mastering | $399.99 |

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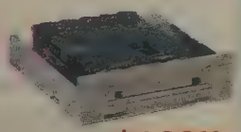

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| 100MB External SCSI-2 | $139.99 |
| 100MB Internal IDE | $ 89.99 |
| 100MB Internal SCSI-2 | $119.99 |
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| 1GB External SCSI-2 | $279.99 |
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| 2GB External SCSI-2 | $579.99 |

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- 120ms Access Time
- 128K Buffer
- 3.6MB/Sec Transfer

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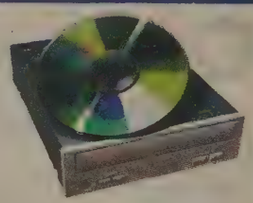
## 32X CD-ROM



- 120ms Access Time
- 128K Buffer
- 4.8MB/Sec Transfer

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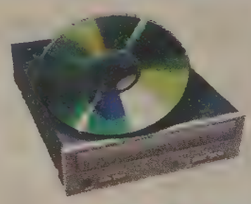

- 99ms Access Time
- 256K Buffer
- 5.4MB/Sec Transfer

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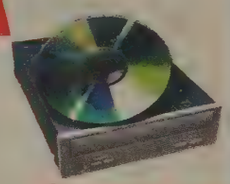
## TOSHIBA 24X EIDE CD-ROM



- 90ms Access Time
- 256K Buffer
- 3.6MB/Sec Transfer

**$59.99**

## TOSHIBA 32X EIDE CD-ROM

- 80ms Access Time
- 256K Buffer
- 4.8MB/Sec Transfer

**$69.99**

## TOSHIBA 32X SCSI-2 CD-ROM

- 80ms Access Time
- 256K Buffer
- 4.8MB/Sec Transfer

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- **Handy rewritability for many different applications.** With the CD-RW you can directly overwrite data as many times as you want - something write-once CD-R media cannot do. This means virtually limitless applications that are perfect for personal use that involves frequent rewriting of data., such as data backup and producing your own CDs. Another advantage is the ability to erase data no longer needed and to reuse the disc.
- 2x Write, 6x Read
- 350ms Access Time, 1MB Buffer
- SCSI-2 Interface
- Easy CD-Pro V2.1 Sofeware
- 1 Blank CD-RW Media

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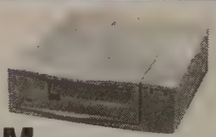
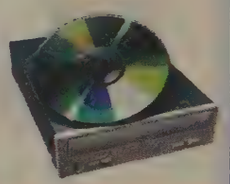
## 32X External CD-ROM



- Parallel Interface
- Supports DOS & Win 95
- Easy Software Installation

**$159.99**

## PLEXTOR 32X SCSI CD-ROM



- 90ms Access
- 512K Buffer
- 4.8MB/Sec Transfer

**$179.99**

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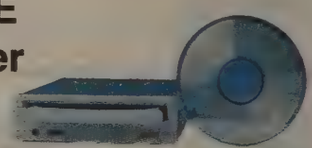
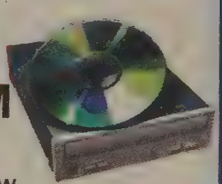
### 8x2 EIDE CD-Writer



- **2x Write, 8x Read**
- **1MB Buffer**
- **200 ms Access**

**$279.99**

## TOSHIBA DVD CD-ROM



- 2nd Generation 2x DVD Drive
- 24X Max Read of CD-R & CD-RW
- 160ms Access Time
- 256K Buffer

**$139.99**

## CREATIVE DVD Encore Dxr 2

The Creative PC-DVD Encore CD-ROM player reads DVD material at 2X speed and CD-ROM material at 20X speed. Features include a DynamicXtended Resolution decoder card that enables you to enjoy cinema-quality video on your PC! The Creative PC-DVD Encore CD-ROM discs can contain up to 17GB of data, 25 times more than a standard CD.

**$239.99**

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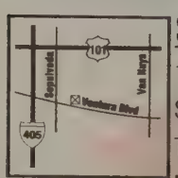

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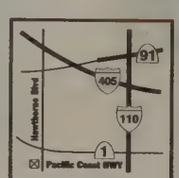

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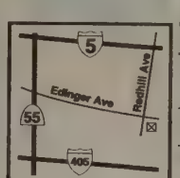
Fax:(310)375-0158



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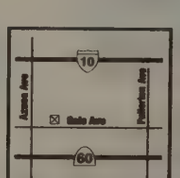
Fax:(714)258-2627



**Industry**
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## Multimedia Kits

### 24X

- 24X EIDE CD-ROM Drive
- 16-Bit Stereo Sound Card
- Microphone
- 60 Watts Stereo Speakers

**$79.99**

### 32X

- 32X EIDE CD-ROM Drive
- Sound Blaster AWE64 Sound Card
- Microphone
- 200 Watts Stereo Speakers

**$159.99**

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CREATIVE

## Sound Blaster AWE64 Gold

- The Ultimate Audio Experience
- Orchestral Quality WaveEffects
- Advanced Signal Processing
- 4MB RAM On Board

**$149.99**

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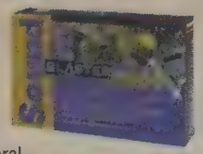
CREATIVE

## Sound Blaster PCI 64



- The Ultimate Audio Experience
- 64-Voice Polyphony & Multi-timbral Capability
- 3D Audio Technology, up to 4 speakers

**$99.99**

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CREATIVE

## Sound Blaster AWE64 Value

- The Ultimate Audio Experience
- Orchestral Quality WaveEffects
- Advanced Signal Processing

**$69.99**

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CREATIVE

## ENSONIQ PCI Wavetable

- 32 Voice Wavetable
- PCI 3D Sound

**$49.99**

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CREATIVE

## Sound Blaster 16 PnP

- True 16-bit CD Stero Sound

**$39.99**

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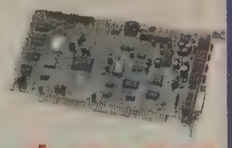
## PCI 3D Wavetable Sound Card



- Wavetable Synthesis
- 3D Full Duplex

**$34.99**

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"The Way your computer should Sound"

### YST M7M — $ 39.99

- 5 Watts per Channel
- Active Servo Technology

### YST M15M — $ 79.99

- 10 Watts per Speakers
- Active Servo Technology

### System 45 — $169.99

- 10 Watts Speakers & 25 Watt Sub-Woofer

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YAMAHA® Chipset

"The Way your computer should Sound"

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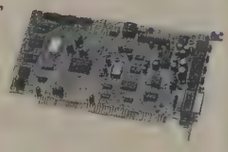

- True 3D Stereo Sound
- 100% Sound Blaster Compatible
- IDE Interface, Full Duplex

**$19.99**

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## Super Woofer Satellite Speakers

- Bose Style Swivel Satellite Speakers
- 120W PMPO, 10W/15W RMS
- Convenient Control Panel

**$59.99**

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ALTEC LANSING MULTIMEDIA

### Subwoofer & Speakers

**ACS45** — $ 89.99
6W Speakers, 20W Woofer

**ACS500** — $249.99
22W Speakers, 40W Woofer

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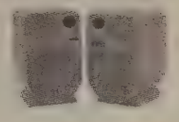
## Multimedia Speakers



- Magnetically Shielded
- High Efficiency
- Full Range Response

**60 Watts** — $15.99
**200 Watts** — $29.99

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## VIPER
4MB SGRAM
- Breakthrough 128-bit windows acceleration
- Phenomenal 3D gaming action
- Blistering 2D speed for business software
- AGP or PCI

**$89.99**

DIAMOND MULTIMEDIA

## Stealth II G460
8MB AGP
- Intel 740 3D Graphic Controller
- Exceptional 3D Quality for Gaming and Business
- Theater-quality MPEG Video Playback

**$99.99**

DIAMOND MULTIMEDIA

## Stealth 3D 4000
4MB AGP
- Accelerated 3D Gaming
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- True Color (24-bit), up to 1600x1200
- Full Screen, MPEG video Playback

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## Fire GL 1000 Pro
8MB RAM
- Superior 3D for Graphics Intensive applications
- Maximized Open GL, Direct 3D and HEIDI acceleration
- Outstanding Windows NT/95 acceleration
- AGP or PCI

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## Monster 3D II
- 3Dfx Voodoo 2 Chipset
- Explosive Speed at over 60 frames/sec
- 8MB EDO RAM

**$219.99**

DIAMOND MULTIMEDIA

## Monster 3D
- Works With Your Existing Graphics Card
- Killer 3D Acceleration
- 4MB PCI OEM Version

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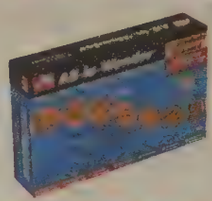
## All-in-Wonder
4MB RAM
- Intelligent TV Tuner
- 2D & 3D Graphics Acceleration
- High Quality MPEG Playback
- Video Capture
- TV Set Display



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## Xpert 98
8MB RAM
- Great for 3D Gaming and Multimedia
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- DVD Picture-Quality, MPEG Video Playback
- AGP or PCI

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ATi

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- Incredible 3D Action for Windows 98
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- AGP or PCI

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ATi

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- 2D & 3D Graphics Acceleration
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- AGP or PCI

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2MB EDO RAM
- Trident 9680, 1600x1200
- Fastest 64-Bit Performance
- 30 Frames per Second Video Playback

**$35.99**

Trident

## 3D MPEG Video
## Video Capture
## TV Output
4MB EDO RAM
- Trident 9685 1600x1200
- 30 Frames per Second Video Playback

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## Millennium II
- Optimized 64-bit PCI graphic board
- 3D and Video at up to 1920x1200 resolution
- PCI or AGP

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MATROX MGA POWER GRAPHICS

## MYSTIQUE 220
4MB SGRAM
- The complete 3D Entertainment &Mutimedia Accelerator

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matrox

## Productiva G100
8MB AGP
- Unparalled 3D Display Quality
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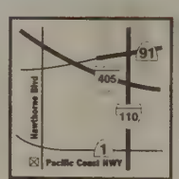


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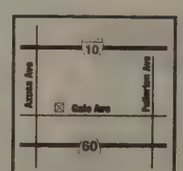


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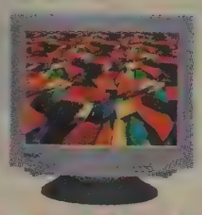
# MONITORS

MAG INNOVISION

## DX-700T



- 17" 1280x1024 Resolution
- Trinitron .25mm Aperture Grille
- On-Screen Display, Plug & Play
- One Year 48 Hours Advanced Replacement
- 3 Year Warranty

**$349.99**

MAG INNOVISION

## DX-500T

- 15" 1280x1024 Resolution
- Sony Trinitron .25mm
- One Year 48 Hours Advanced Replacement
- 3 Year Warranty

**$229.99**

MAG INNOVISION

## DJ-700

- 17" 1280x1024 .26mm
- New JAG OSD Control
- One Year 48 Hours Advanced Replacement
- 3 Year Warranty

**$319.99**

MAG INNOVISION

## 720V2

- 17" 1280x1024 .28mm
- On-Screen Display, Plug & Play
- One Year 48 Hours Advanced Replacement

**$279.99**

MAG INNOVISION

## DJ-530

- 15" 1280x1024 .28mm
- On-Screen Display, Plug & Play
- One Year 48 Hours Advanced Replacement
- 3 Year Warranty

**$189.99**

MAG INNOVISION

## DJ-800

- 19" 1600x1200 .26mm
- 80Hz @ 1280x1024
- New JAG OSD Control
- One Year 48 Hours Advanced Replacement
- 3 Year Warranty

**$549.99**

ViewSonic®

## E655

- 15" 1280x1024, .28mm
- 87Hz @ 1024x768
- On-Screen Display, Plug & Play
- 3 Year Warranty

**$229.99**

ViewSonic®

## P775

- 17" 1600x1280, .25mm
- 77Hz @ 1280x1024
- On-Screen Display, Plug & Play
- 3 Year Warranty

**$499.99**

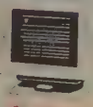
ViewSonic®

## G790

- 19" 1600x1200, .26mm
- 88Hz @ 1280x1024
- On-Screen Display, Plug & Play
- 3 Year Warranty

**$629.99**

## Super VGA Monitor



**17" Digital** — **$239.99**
- 1280x1024, .28mm, Digital Controlled

**15" Digital** — **$149.99**
- 1280x1024, .28mm, Digital Controlled

**14"** — **$119.99**
- 1024x768, .28mm, Non-Interlaced

ViewSonic®

## P815

- 21" 1800x1440, .25mm
- 91Hz @ 1600x1200
- On-Screen Display, Plug & Play
- 3 Year Warranty

**$1249.99**

ViewSonic®

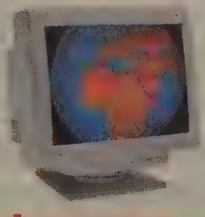
## G810

- 21" 1600x1200, .25mm
- 83Hz @ 1280x1024
- On-Screen Display, Plug & Play
- 3 Year Warranty

**$979.99**

VISIONMASTER iiyama

## Vision Master 450



- iiyama MT S901GT
- 19" 1600x1200 .26mm
- 80Hz @ 1600x1200
- 3 Year Warranty

**$729.99**

VISIONMASTER iiyama

## Vision Master Pro502

- iiyama A102GT
- 21" 1800x1400, .28mm Aperture Grill
- 85Hz @ 1600x1200
- 3 Year Warranty

**$1049.99**

VISIONMASTER iiyama

## Vision Master Pro17

- iiyama MT-9017E
- 17" 1600x1200, .25mm Aperture Grill
- Diamondtron 72Hz @ 1600x1200
- 3 Year Warranty

**$529.99**

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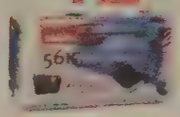
## US Robotics
### Sportster 56K V.90 WinModem
- USR#5683, Internal
- Designed to Use the Power of Windows
- Plug & Play Installation
- ITU 56K V.90 Standard



**$99.99**

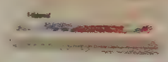
## US Robotics
### Sportster 56K V.90 Data Fax Modem
- USR#5687, **Internal**
- 56K V.90 ITU Standard
- Group III Fax

**$139.99**

## 3Com

| | |
|---|---|
| **3C509-BT** ISA Etherlink III, Coax & 10-Base-T | $ 79.99 |
| **3C900-CM** PCI 32-Bit Combo EtherLink XL 3-in-1, Coax / 10-Base-T / AUI | $ 89.99 |
| **3C905-TX** PCI 32-Bit Fast EtherLink XL (10/100 Base) 10-Base-T | $ 79.99 |
| **Office Connect 8-Port Hub** 3C16700, 10-Base-T | $ 129.99 |
| **Office Connect 16-Port Hub** 3C16702, 10-Base-T | $ 299.99 |
| **Office Connect 100 8-Port Hub** 3C16722, 100-Base | $ 499.99 |
| **Superstack 24-Port Hub** 3C16406, New with SNMP & Segmentation | $ 699.99 |
| **Superstack 100 12-Port Hub** 3C250B, 10/100-Base-T | $ 999.99 |

## US Robotics
### Sportster 56K V.90 Data Fax Modem
- USR#5686, **External**
- 56K V.90 ITU Standard
- Group III Fax



**$149.99**

## US Robotics
### Sportster 56K V.90 Voice Fax Modem
- USR#5685, **Internal**
- Full Duplex Speaker Phone
- 56K V.90 ITU Standard
- Fax on Demand, Caller ID

**$149.99**

## US Robotics
### Sportster 56K V.90 Voice Fax Modem
- USR#5605, **External**
- Full Duplex Speaker Phone
- 56K V.90 ITU Standard
- Fax on Demand, Caller ID

**$189.99**

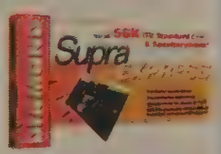
## 3Com US Robotics
### Bigpicture Video Phone
- Complete Videoconferencing
- High Quality NTSC Color Camera with built-in Microphone
- High Performance PCI video capture card
- RapidComm Video Software

**$159.99**

## DIAMOND MULTIMEDIA
### Supra Sonic II 112K Modem
Designed with Shotgun technology, this innovative modem integrates two 56K modems on a single board for download speeds to 112K. Best of all, the SuperSonic II supports Voice Priority which releases your second line for incoming calls. Get all these features on one powerful, easy-to-install board!

**$199.99**

## DIAMOND MULTIMEDIA
### Supra Express 56K V.90 Modem



**$99.99**

## Network Software

### Microsoft

| | |
|---|---|
| **Windows NT 4.0 Workstation** | $199.99 |
| **Windows NT 4.0 Server (5)** | $599.99 |
| **Windows NT 4.0 Server (10)** | $799.99 |

### Novell

| | |
|---|---|
| **NetWare 3.12 (5) Users** | $ 799.99 |
| **NetWare 3.12 (10) Users** | $1699.99 |
| **NetWare 3.12 (25) Users** | $2399.99 |
| **IntraNetWare (5) Small Business** | $ 499.99 |
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## 33.6
### Data Fax Modem
- Internal V.34

**$39.99**

## Network

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| NE2000 2-in-1<br>ISA Coax & 10Base-T, Jumperless | $ 29.99 |
| PCI Ethernet<br>10BASE-T, JUMPERLESS | $ 29.99 |
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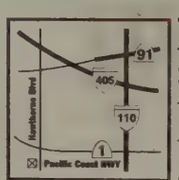

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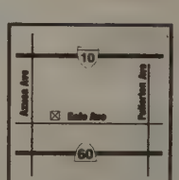

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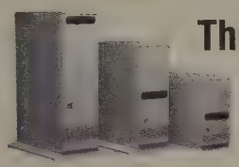
8 Drive Bays, 230W

**Mid Tower** $39.99
6 Drive Bays, 230W

**Mini Tower** $29.99
5 Drive Bays, 230W



## Thunder Series

**Full Tower** $69.99
10 Bays, Door, 230W

**Medium Tower** $59.99
8 Bays, Door, 230W

**Mini Tower** $39.99
5 Bays, Door, 230W

## ATX Series

**Full Tower** $99.99
10 Bays, 230W, ATX

**Medium Tower** $79.99
8 Bays, 230W, ATX

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**SC 750-S/A** $199.99
Full Tower, 9 Bays, 300W, AT/ATX

**SC 701-S/A** $129.99
Medium Tower, 6 Bays, 235W, AT/ATX

**SC 501-A** $109.99
Mid Tower, 6 Bays, 235W, ATX

**SC 801-S/A** $699.99
Server Case, 13 Bays, AT/ATX
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## LOGITECH

MouseMan Cordless $69.99

MouseMan II $49.99
Combo Mouse, Serial or PS/2

TrackMan Marble $69.99
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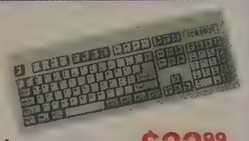
## Keyboard



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Chicony 104-Key $19.99

GlidePoint 104-Key $69.99

## Microsoft®

Natural Keyboard Elite $49.99

IntelliMouse $39.99

Mouse V2.0 Serial $29.99

Mouse V2.0 PS/2 $29.99

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Color Flatbed, EPP Parallel
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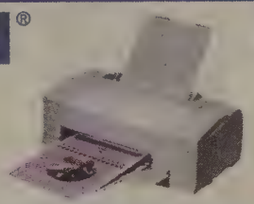
ScanMaker X6 $199.99
36-bit, Single-Pass, 600x1200dpi
Color Flatbed, EPP Parallel

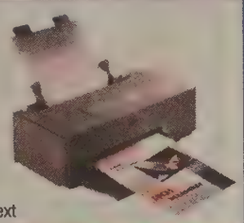
## EPSON® Stylus Color 800



- 1440x720 dpi Photo Color & Black Text
- Prints up to 8 PPM in Black
- Prints up to 7 PPM in Color
- 2 Years Warranty

$279.99

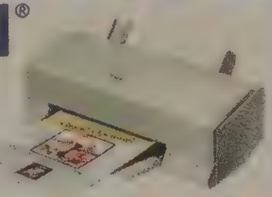
## EPSON® Stylus Color 400



- 720x720 dpi Photo Color & Black Text
- Prints up to 3 PPM in Black
- Prints up to 4 PPM in Color
- 2 Years Warranty

$159.99

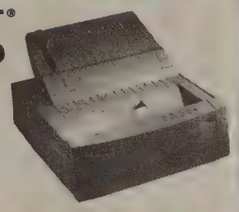
## EPSON® Stylus Color 600



- 1440x720 dpi Photo Color & Black Text
- Prints up to 6 PPM in Black
- 2 Years Warranty

$189.99

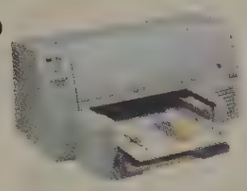
## HEWLETT® PACKARD LaserJet 6LXi



- 600x600 dpi Laser
- 6 PPM

$379.99

## HEWLETT® PACKARD DeskJet 890CXi



- 600x600 dpi
- 9 PPM Black, 5 PPM Color
- Size 4" x 6" to legal size

$379.99

## HEWLETT® PACKARD DeskJet 670C

- 600 dpi Black, 600x300 dpi Color
- 4 PPM Black, 1.5 PPM Color

$189.99

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Matrox Millenium II 4 MB
Matrox Rainbow Runner w/Ulead software
9 GB Seagate Barracuda UW SCSI Hard drive
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| 9.19 GB UW Barracuda . | $645 |
| 18 GB UW Barracuda . | $CALL |
| 4.55 GB Cheetah ..... | $510 |
| 9.1 GB Cheetah ..... | $765 |

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| 2.8 GB UDMA IDE ..... | $118 |
| 4.3 GB UDMA IDE..... | $125 |
| 6.4 GB UDMA IDE..... | $159 |
| 8.4 GB UDMA IDE..... | $221 |
| 11.5 GB UDMA IDE..... | $285 |

**SAMSUNG - ULTRA-DMA**

| | |
|---|---|
| 2.1 GB UDMA IDE. | $110 |

**WESTERN DIGITAL- UDMA**

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|---|---|
| 2.5GB UDMA IDE ..... | $127 |
| 4.3 GB UDMA IDE..... | $135 |
| 6.4 GB UDMA IDE..... | $179 |
| 8.4 GB UDMA IDE..... | $235 |

FUJITSU, QUANTUM also available

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AD-2500 DPS Perception .....$825
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**MIRO DC30 + w/ Adobe Premiere .....$784**
DPS Spark. w/ Fire Wire.....$439
DPS Spark Plus w/Fire Wire & UW SCSI. $649

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Leadtek L2300 Winfast Permedia2 Open GL card w/ 8 MB SGRAM PCI/AGP $139/$139
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Diamond Fire GL 4000 $CALL
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*continued from page 64*


This lets you mirror the entire memory contents of your Pilot to your PC and then load it onto your Palm III. (While some think this might be a good thing to do regularly, it substantially increases the time it take to hotsync, so I don't recommend it.

Next month, look for a hands-on review of the Novatel Wireless Minstrel, the wireless Internet connection for the Pilot. ◆


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***Installation of the upgrade card is reputedly simple, requiring no tools. You just replace the original memory cover and card with new ones.***

### Resources:

**Palm III, $399**
3Com
*http://palmpilot.3com.com*

**DB Explorer, $10**
*www2.viaweb.com/pilotgearsw/katsuhiroendo.html*
*www.pilotgear.com/*

**Digitalwriter Duo, $34.95**
Cross Pen Computing Group
(401)333-1200
*www.cross-pcg.com*

**JetPac, $19.95**
J. P. Solutions
(802)254-4068
*www.jpsolutions.com*

**AirMiles, $29.95**
**Memo Plus, $14.95**
**PhoneLog, $19.95**
**ThoughtMill, $17.95**
**ToDo Plus, $14.95**
**Trip, $19.95**
Hands High Software
1-800-741-9070
*www.handshigh.com*

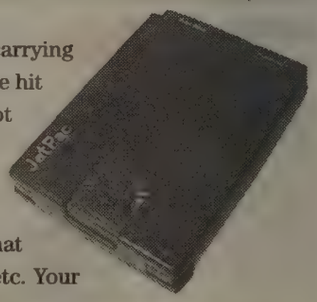
# Pilot Accessories

## *Stylin' Stylus*

For the ultimate in a handheld/PDA stylus replacement, look no further than the Cross Digitalwriter Duo ($35). The product combines a Cross ballpoint ink pen on one end with a stylus on the other. It also features Cross's patented "pen-on-paper" feel, which really brings a more natural feel to on-screen writing.

The pen side is normally covered by a screw-off cap, which sits noticeably loose when placed over the stylus end. This helps to prevent you from leaving it there and accidentally writing on your display with the pen end. How ingenious! The Duo is available in blue, black and burgundy colors.

### Protective Gear




I've been waiting for a truly efficient belt carrying case for the Pilot, and J. P. Solutions may have hit the mark with JetPac ($20). Any model Pilot will slip into this lightweight one-piece product, including the new Palm III (sans flip cover).

What I really like about this product is that there's nothing to flip up, unzip, "unvelcro," etc. Your


*continued on page 86*

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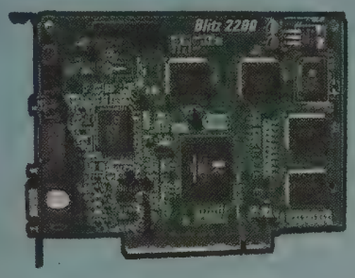
# Blitz 2200



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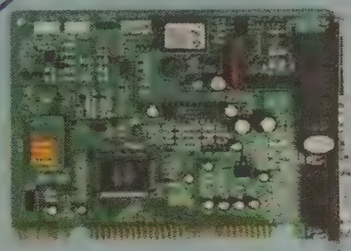
* Powered by Rendition Verite V2200 2D/3D Graphic and Video processor
* Integrated programmable RISC engine
* Fastest 100MHz SGRAM (4MB/8MB)
* Integrated 230MHz RAMDAC
* Simultaneous display to monitor and TV
* Maximum resolution upto 1,600 x 1,200 x 16 bit @ 75Hz
* Asynchronous rendering with seperate setup, triangle and pixel engines

* 5 Game Titles Included

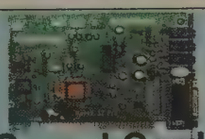


* Multimedia single codec processor, AD1821 MODIO chip
* 56K Data/14.4K Fax Modem Rockwell compatible (V.90 available)
* Sound Blaster Pro/Adlib/OPL3 Support
* Full duplex speakerphone
* Stereo Audio 16bit Codec
* Full duplex capture and playback operation at different sample rate
* Integrated OPL3 compatible music synthesizer
* Software and hardware volume control

$39

# Xceed 56K Modio

## (Modem + Sound Card)



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**$29.99**

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* Integrated SRS 3D Sound Technology

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**$40**

* High quality 2D/3D acceleration
* Programmable RISC processor (Verite Rendition V100-E)

**InterCam Total Media**
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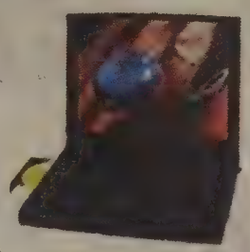
## 15.1" ST880 $2,849

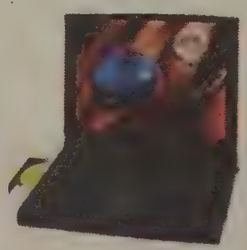


* Intel Mobile Modul(IMM) Pentium II 233/266 Mhz

- Pentium II 233 $2,849
- Pentium II 266 $3,169

- Intel IMM PentiumII CPU
- 512KB L2 Pipeline Cache
- 15.1" 1024x768 XGA TFT
- 4 MB Video SGRAM
- PCI 3D Graphic Accelerator
- 64 MB SDRAM (to 128MB)
- Removable 3.5" 1.44MB FDD
- 3.1 GB Removable HDD / PCI Local Bus
- Modular 1.44MB FDD (LS-120 FDD/ZIP)
- 16-bit 3D Stereo Sound w/ Speakers &Mic.
- Built-In 24X CD-ROM
  DVD ROM Kits (option add $285)
- PCMCIA 2 Type II or 1 Type III
- Infrared, Wireless "IR"
- 1 Lithium-Ion 75.6w Battery
- ZV support w/ TV output
- Carring Bag & AC adapter

## 15.1" ST800 $2,319



- Pentium 166 MMX $2,319
- Pentium 200 MMX $2,329
- Pentium 233 MMX $2,339

- ZV support w/TV output
- Carrying Bag

- Intel Pentium MMX CPU
- 512KB L2 Pipeline Cache
- 15.1" 1024x768 XGA TFT
- 4 MB Video RAM
- 3.1GB Removable HDD
- 32 MB SDRAM (to 128MB)
- 64-bit GUI Accelerator Engine
- 16-bit 3D Stereo Sound w/ Speakers & Mic
- Modular 1.44MB FDD (LS-120 FDD / ZIP Drive)
- Built-In 24X CD-ROM
- PCMCIA 2 Type II or 1 Type III
- 1 Lithium-Ion 75.6w Battery
- Infrared "IR" Interface

## 14.1" ST900 $1,849

- Pentium 166 MMX $1,849
- Pentium 200 MMX $1,859
- Pentium 233 MMX $1,869

- ZV support w/TV output
- Carrying Bag

- Intel Pentium MMX CPU
- 512KB L2 Pipeline Cache
- 14.1"(13.3") 1024*768 XGA TFT
- 4 MB SGRAM Video RAM
- PCI 3D Graphic Accelerator
- 32 MB SDRAM (to 128MB)
- 64-bit PCI BUS
- 16-bit Stereo Sound System Speakers & Mic.
- 3.1GB Removable HDD
- Removable 3.5" 1.44MB FDD
- Built-In 24X CD-ROM
- Touchpad Pointing Device
- PCMCIA 2 Type II or 1 Type III
- 1 Lithium-Ion 44w Battery
- Infrared "IR" Interface

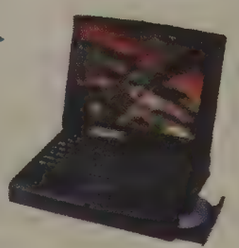
## 13.3" ST330 $2,299

- Pentium II 233 $2,299
- Pentium II 266 $2,619

- ZV support w/TV output
- Carrying Bag

- Intel IMM PentiumII CPU
- 512K Sync, Pipeline Cache
- 13,3" 1024 x 768 Active Color
- 4 MB Video SGRAM
- 32 MB SDRAM (to 128MB)
- 24X CD-ROM (Built-In)
- 64-Bit PCI Bus
- 3.1GB Removable HDD
- 3.5" 1.44MB FDD
- 16-Bit Sound System, Mic. & Stereo Speakers
- PCMCIA 2 Type II or 1 Type III
- 1 Lithium-Ion Battery

## 12.1" ST600 $1,439

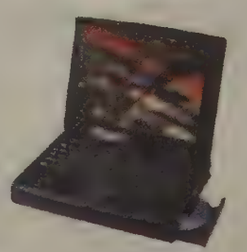


- Pentium 166 MMX $1,439
- Pentium 200 MMX $1,449

- ZV support w/TV output
- Carrying Bag

- Intel Pentium MMX CPU
- 512K Sync, Pipeline Cache
- 12.1" 800x600 SVGA Active Color
- 2 MB Video EDO RAM
- 32 MB EDO RAM (up to 72MB)
- 20X CD-ROM (Built-In)
- 64-Bit PCI Bus
- 3.1GB Removable HDD
- Removable 3.5" 1.44MB FDD
- 16-Bit Sound System, Mic. & Stereo Speakers
- PCMCIA 3 Type II or1 Type II & 1 Type III Slots
- 1 Ni-MH Battery (Li-Ion opt.)

## 12.1" P300 $1,319



- Pentium 166 MMX $1,319
- Pentium 200 MMX $1,329
- Pentium 233 MMX $1,339

- Intel Pentium MMX CPU
- 512K Sync, Pipeline Cache
- 12.1" 800x600 SVGA Active Color
- 2 MB Video EDO RAM
- 32 MB EDO RAM (up to 128MB)
- 20X CD-ROM (Built-In)
- 64-Bit PCI Bus
- 3.1GB Removable HDD
- Removable 3.5" 1.44MB FDD
- 16-Bit Sound System, Mic. & Stereo Speakers
- 2 x PCMCIA Type II or 1 Type III
- 1 Ni-MH Battery

## 12.1" P5100 $1,339

- Pentium 166 MMX $1,339
- Pentium 200 MMX $1,349
- Pentium 233 MMX $1,359

- Intel Pentium MMX CPU
- 256K Sync, Pipeline Cache
- 12.1" 800x600 SVGA Active color
- 2 MB 3D Video RAM
- 32 MB EDO RAM (up to 96MB)
- 64-Bit 3D Graphics
- 3.1GB Removable HDD
- 16-Bit 3D Sound, Mic. & Stereo Speakers
- 3.5" 1.44MB FDD (Built-In)
- 20X CD-ROM
- 2 x PCMCIA Type II or 1 Type III
- 1 NI-MH Battery

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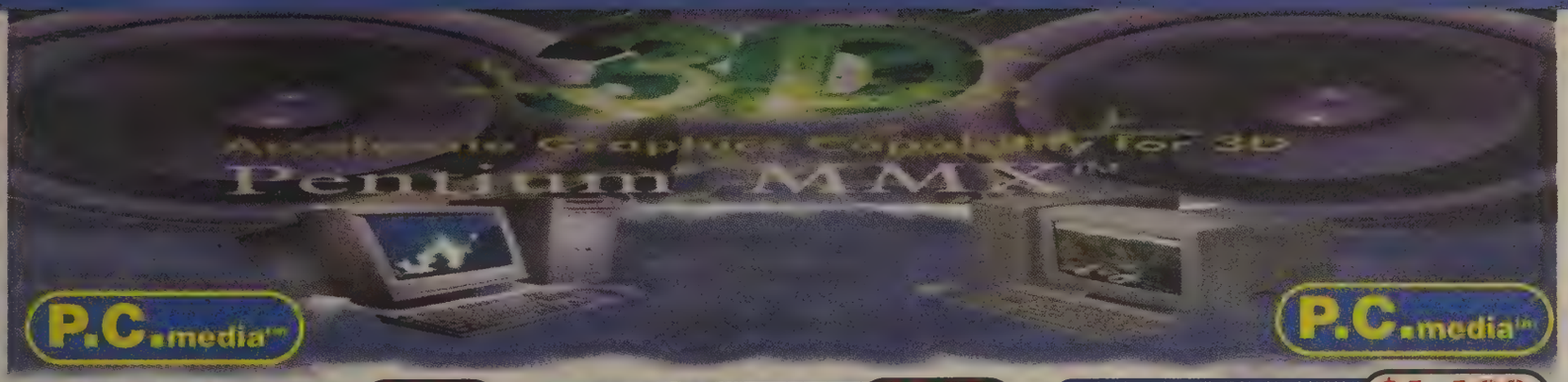
| $165 | $185 | $225 | $325 | $60 | $70 | $90 | $130 | $65 | $105 | $135 | •56K w/ Celluar CALL | |




## SIS DVD AGP $759

- Intel Pentium II 233 CPU
- Intel i440LX 715 motherboard
- 32 MB SDRAM
- 2.5 GB U. D. HDD / 1.44MB FDD
- 15" NI. JAG Monitor - 17" add $100
- SIS DVD w/4 MB SDRAM, AGP, TV -Output
- 24 xSpeed CD-ROM - DVD ROM add $70
- 3D Wave Table Sound Card
- 100w Hi-Power Speaker
- 56K Flex Fax/Data/Voice V.90 Modem / Mic.
- Mid AT Tower Case
- 105 Key Win95 Keyboard, Mouse & Pad
- Family CD Bundle & Game Pack

Win95/98CD & Manual add $89

| | |
|---|---|
| • Pentium II 266 | $ 819 |
| • Pentium II 300 | $ 949 |
| • Pentium II 333 | $1,069 |

## 985 3D AGP $829

- Intel Pentium II 233 CPU
- Intel FYI443LX motherboard
- 32 MB SDRAM
- 3.2 GBU.D. HDD / 1.44MB FDD
- 15" NI. JAG Monitor - 17" add $100
- Trident 985 3D w/4 MB SGRAM, AGP, (2x) 133MHz TV-Output
- 24 xSpeed CD-ROM
- 3D Wave Table SoundCard
- 100w Hi-Power Speaker
- 56K Flex Fax/Data/Voice V.90 Modem / Mic.
- Mid ATX Tower Case
- 105 Key Win95 Keyboard, Mouse & Pad
- Family CD Bundle & Game Pack

Win95/98CD & Manual add $89

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|---|---|
| • Pentium II 266 | $ 889 |
| • Pentium II 300 | $1,019 |
| • Pentium II 333 | $1,139 |

## ASUS BX AGP $1,109

- Intel Pentium II 233 CPU
- ASUS Pentium II motherboard
- 64 MB SDRAM
- 4.3 GB Ultra DMA HDD / 1.44MB FDD
- 15" MPR-II NI. Monitor - 17" add $100
- ATI XPERT@Play AGP w/4 MB SGRAM
- 32 xSpeed CD-ROM
- Sound Blaster AWE64 Sound Card
- 100w Hi-Power Speaker
- 56K Flex Fax/Data/Voice V.90 Modem / Mic.
- Mid ATX Tower Case
- 105 Key Win95 Keyboard, Mouse & Pad
- Family CD Bundle & Game Pack

Win95/98CD & Manual add $89

| | |
|---|---|
| • Pentium II 266 | $1,169 |
| • Pentium II 300 | $1,299 |
| • Pentium II 333 | $1,419 |
| • Pentium II 350 | $1,529 |
| • Pentium II 400 | $1,789 |

## SOHO Power $489

- Cyrix M2 233+ MMX CPU
- Pentium MMX motherboard
- 32 MB SDRAM / 512k Cache
- 2.1 GB HDD / 1.44MB FDD
- 14" MPR-II NI. Monitor
- 64-bit VGA Chip w/ 2 MB
- 56K Flex Fax/Data/Voice V.90 Modem
- 3D Wave Table Sound Card
- Mid Tower Case
- 105 Key Win95 Keyboard, Mouse & Pad

Win95/98CD & Manual add $89

| | |
|---|---|
| • Intel 200 MMX | $ 519 |
| • Intel 233 MMX | $ 549 |
| • AMD K6-233+ | $ 509 |
| • AMD K6-266+ | $ 539 |

| | |
|---|---|
| • DVD-ROM Drive 2nd Gen. | $133 |
| • CD Rcordable (4xW/6xR) | $350 |
| • Iomega ZIP Drive | $99 |
| • Word Perfect 7 Suite | $79 |

## 3D Media Plus $609

- Intel Pentium 200 MMX CPU
- Pentium MMX motherboard
- 32 MB SDRAM / 512k Cache
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*continued from page 82*

Pilot just slides out, ready for immediate use. Plus, the rigid plastic construction keeps your device perfectly safe. Of course, this accessibility comes at the risk that with significant jarring, your Pilot could pop out.

### Hands High Pilot Software

Hands High Software's Memo PLUS ($15) and ToDo PLUS ($15) are direct replacements for the Pilot Memo Pad and To Do. Both even use the same respective database files—a very nice touch.

What sets them apart from the built-in apps is that you can attach drawings to entries. The drawing tools are about as basic as you can get, but get the job done. A great feature is the ability to re-order categories.

Memos can also be sorted forward or reverse alphabetically. You can even attach an alarm and password notes. Memo PLUS also features note and drawing "models," that are essentially templates that will give you a jumpstart on notes or drawings that you make routinely.

ToDo PLUS has an "at-a-glance" display mode, which shows each category with the highest priority and nearest due date. You can also view items that are due today, tomorrow, this week, next week, after that, and items with no due date.

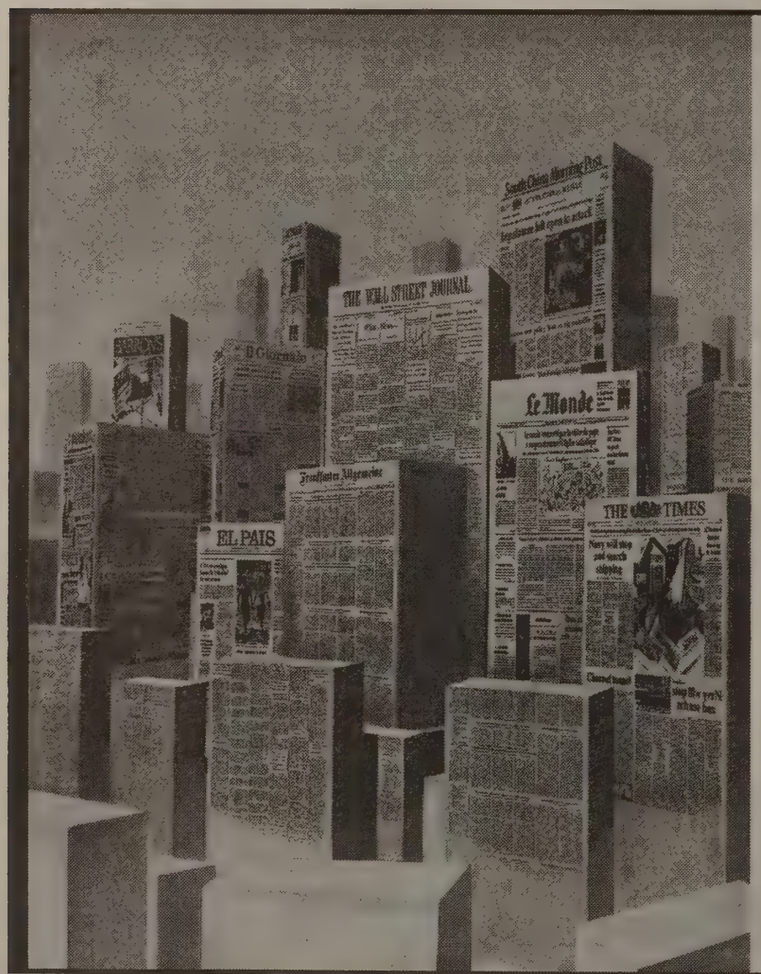
ThoughtMill ($18) is really a combination To-Do/Memo program and is great to organize your thoughts in outline format. You can drag and drop lines anywhere in the outline. In Macintosh style, sub-hierarchy can be hidden or re-displayed and lines can be dragged to a scratch folder or trashcan. You have the option of putting Checkboxes next to lines as well. You can export and import data using Memo Pad app, with tabs indicating levels.

Trip ($20) is great for tracking automobile mileage. You can have multiple cars and of course categorize trips (e.g. business, non-profit, etc.). For each entry, you can set the beginning and ending odometer readings (or miles directly), date, time, and description. You can also set pre-defined descriptions.

PhoneLog ($20) is similar to Trip, but is for tracking phone calls. The app has many time saving features—for example, the call type and subject can be selected from a user-defined list. The name, company, and phone number can linked to the Pilot Address Book, and you can have it guess the entry based on what you enter. A timer can be used to set the call length. PhoneLog even shares the same models as Memo PLUS, which can be used as a starting point for attached notes, and you can export entries to the Memo Pad. If the contact is new, you can add a new Address Book entry with a simple tap. Calls can be listed by date, type, contact, and subject.

AirMiles ($30) helps you track your frequent flyer miles and avoid losing them unexpectedly. The program will categorize miles earned in a variety of ways, like phone calls, credit card usage, and lodging, as well as actual flights. Input fields include program name, date, miles, flight segments, bonus miles, expiration (life), and description (a pre-defined list can be used), and you can attach notes. Programs can have preset expiration times and bonus percentages, which can be overwritten. Mileage used can also be tracked. Entries reconciled to statements may be marked and you can export data to the Memo Pad.

So until then, keep reaching for the stars and keep those batteries charged.—*Douglas J. Nakakihara*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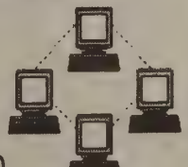

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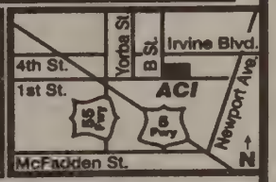

# Crime Prevention And Comfort

## *Secondary Social Payoffs From Telecommuting*

*By Robert Moskowitz*

*When you include work-at-home consultants and entrepreneurs in the totals, about one in every eight American families now includes a person who works at home during the day. Projections indicate that this figure (12%) will grow to almost 20% within the next five years.*

The Industrial Economy has been so fixated for so many decades on moving millions of people dozens of miles each way to and from their daytime jobs that the practical difficulties and social problems this mode of work engenders have come to seem almost "normal." But there's nothing normal about building high-rise downtown business centers that get deserted after sundown, just as there's nothing normal about building mile upon square mile of bedroom communities with few if any amenities, gathering places, or cultural resources, and then emptying these vast regions from morning 'til night of nearly everyone past high school graduation age.

It was bad enough in the 1950s when mostly fathers went to work, and these suburban wastelands were populated mainly by mothers and young children. Today, with as many as 60% to 80% of women actively participating in the workforce, too, the "bedroom community" syndrome has become much worse.

So it's refreshing to realize that in addition to all the primary benefits that telecommuting delivers for individuals and families, employers, and society as a whole, the continuing shift to this more advanced working mode will have secondary benefits for the millions of people who will never telecommute.

When you include work-at-home consultants and entrepreneurs in the totals, about one in every eight American families now houses a person who works at home during the day. Projections indicate that this figure (12%) will grow to almost 20% within the next five years.

Just think of the implications.

Let's begin with the simplest: Crime prevention. Daytime burglaries, for example, will become a lot riskier as the likelihood of finding a block of empty houses continues to decrease. Having more people walking, driving, and observing within our residential communities during the day will almost certainly tend to deter all sorts of crime, vagrancy, and vandalism.

In addition, having neighbors at home during the day creates a stronger basis for community feelings and cooperative activities. During snowstorms, for example, neighbors staying at home to telecommute can help each other shovel out. Younger neighbors can bring groceries for older neighbors housebound by the snow. Even in clement weather, neighbors working at home can use their break times to chat over the back fence, carpool to the grocery store, or accept others' important packages from delivery services.

Moreover, people working at home will tend to enliven and strengthen the local economy, because they'll want the services locally that they're used to finding "downtown," including pleasant, convenient restaurants and coffee shops, and access to professional services from business attorneys to training centers. And when they frequent these local vendors, they'll meet and get to know neighbors they might never encounter if they commuted every day to work outside the community.

The numbers of "latch-key" children should also decline as more kids returning from school to find Mom or Dad busy meeting deadlines from the home office or fold-away workstation. Telecommuting parents can more easily maintain a stronger presence in their children's lives, and exert more influence on their formative years, instead of farming them out to minimum-wage caretakers for fully a third of every weekday, or longer.

It's important to remember, of course, that telecommuting is no substitute for paid child care. There's no way a parent can tend to his or her youngster and still turn out high-quality work at a reasonable pace. Parent and child must both learn that telecommuting from home does not translate to always being available.

But whether a telecommuting Mom or Dad has a paid child care worker downstairs and an office upstairs, or takes the children to a neighborhood day care center before returning home to start work, there are significant advantages to being physically close to your children during the day.

First, you can respond more appropriately to every childhood problem. In the event of an

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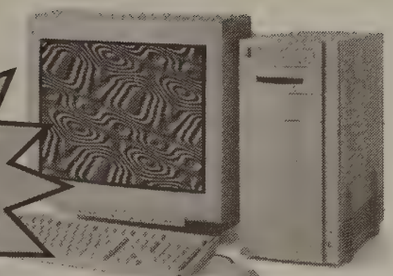

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emergency, telecommuting parents can arrive on the scene more quickly and determine the exact intensity of response and involvement that's required. But when you're 20 miles away and Johnny falls down, it's difficult to stay at work and remain effective, and if you leave there's little chance you'll have time to come back later that day and pick up where you left off.

Second, it's easier to share in special events. A birthday party or mini-recital, for example, needn't cost you a half-day or whole day of work. It's easy to take half an hour or an hour from your telecommuting responsibilities and look in on your child's triumph in creating the role of a tomato in the first grade play.

Third, the whole situation is much more relaxed and comfortable. The time saved through telecommuting can instantly translate into extra minutes with your children before and after work. Telecommuting, in fact, makes it possible to spend more time communicating, working out difficulties, and building a stronger relationship with everyone in your family.

What's more, working in plain view of your children provides a good way to teach them the importance and value of hard work. Instead of remaining a vague and remote abstraction that you perform at a remote location, your work becomes a literal reality for your children when you telecommute. As they grow up, they're more aware of what's required, and more willing to commit their talents and energies toward their own success on the job.

This telecommuting-induced community strength need not be torn apart by frequent moves to new locations, either. That's because telecommuters can often negotiate with their employers to avoid, delay, or mitigate the social impact of job-related transfers. When you must physically appear in the office every day, a transfer to another business unit can inevitably require a family move to a new town. But when telecommuting is part of the working pattern, it's more feasible to keep the kids in the same school and live in the same house because the need to travel to the new office is greatly reduced.

Since kids tend to thrive on long-established roots, the differences can be profound. Avoiding the move means your children can retain the same friends, attend the same schools, and feel the security of familiar surroundings much longer than the children of people who must follow their work from one community to another.

## Telecommuting To Shift Property Values

When the demands of physical travel still ruled the business world, real estate location was the key factor in setting property values and, by extension, office rents. But now that telecommuting is a reality for millions of workers, and more begin telecommuting every year, the equation for real estate valuation is inevitably being rewritten.

The main reason is that telecommuting and related working patterns create a disconnect between *what* we do and *where* we do it. As a result, it's far less important to locate many business operations in particular places.

For example, during the past decade it has become increasingly common to place low-visibility operations such as incoming call centers and back-office processing facilities in urban warehouses and rural locations where property values and rents are relatively cheap. Now the same kind of relocation opportunities are beginning to make sense for "front office" and higher-visibility operations like sales, administration, and in some cases even the executive suites.

*continued on page 96*


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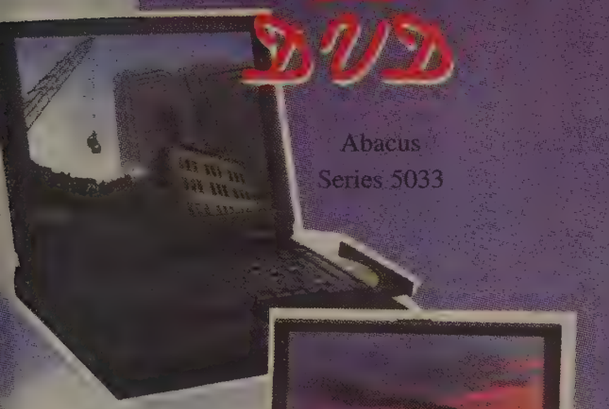

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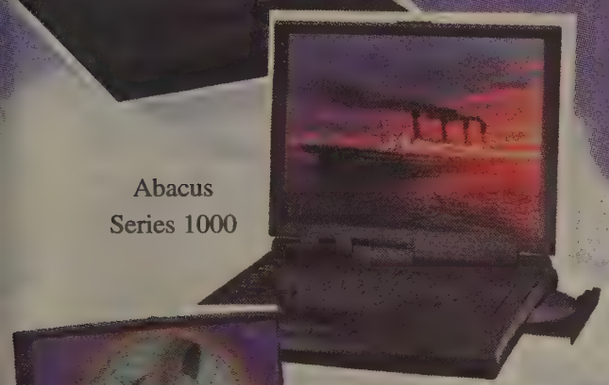

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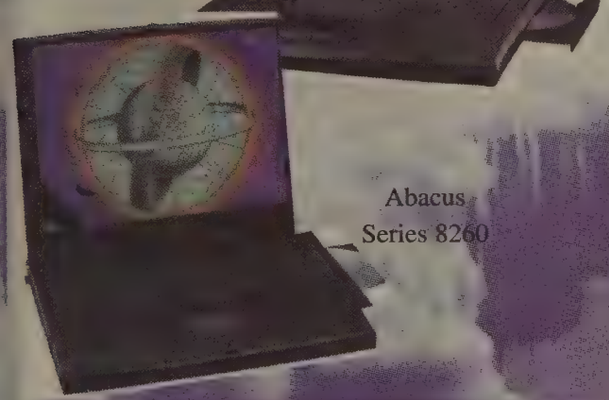

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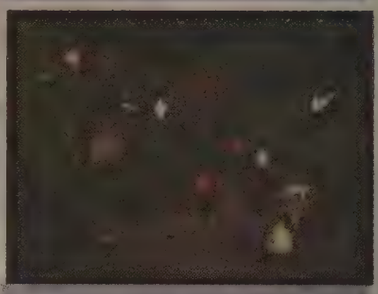

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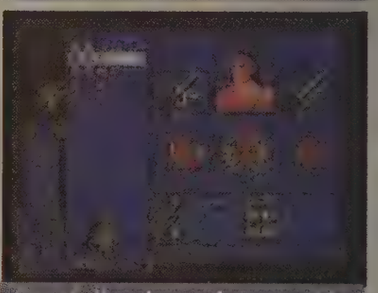

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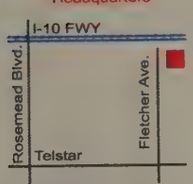


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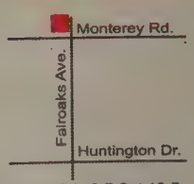


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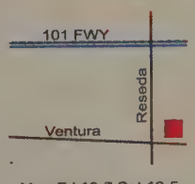


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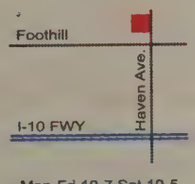


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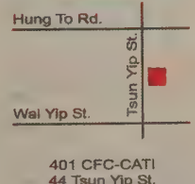


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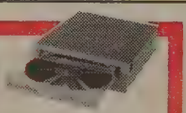

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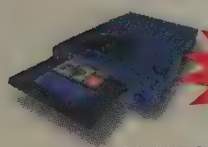

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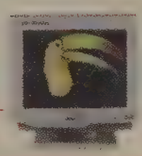

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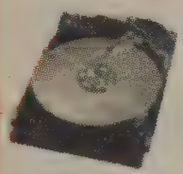

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| Shuttle Intel P2 LX MB | Intel P2-266 $299 |
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| Shuttle Intel P2BX MB | Intel P2-266 $339 |
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*continued from page 90*

What's more, techniques of "virtual" organization now allow larger numbers of people in a wider range of job classifications to accomplish significant work outside the office. Thus, organizations are obtaining a much greater proportion of their work from telecommuting employees, and from specialists working under "outsourcing" contracts.

Today's increasing automation and growing emphasis on working at a distance also allow organizations to accomplish a given level of production with fewer employees—particularly at central sites. As organizations grow leaner at the front lines, they naturally employ fewer layers of management and support staff who must be housed in expensive offices.

All this allows organizations to be equally or even more productive while occupying far less office space. Highly motivated because occupancy costs are frequently a company's second largest operating expense, facilities managers have been quick to recognize the cost-saving opportunities in the techniques of telecommuting and "virtualization."

For example, Pacific Bell has a plan to reduce its administrative office space by 28%—from 9.5 million square feet to 6.8 million square feet—over five years. The company expects to obtain a 25% savings in its occupancy costs.

*Now that telecommuting is a reality for millions of workers, the equation for real estate valuation is inevitably being rewritten.*

In the short term, office rents may hold steady or even increase as economic activity picks up and business activity expands. But in the long term, the massive reduction in office and retail space demands will put downward pressure on rents, and thus on property values.

## ADSL For Telecommuters

SBC Communications Inc. recently announced that Pacific Bell will begin broadly deploying high-speed Asymmetrical Digital Subscriber Line (ADSL) service in more than 200 communities across California to satisfy customers' increased demands for bandwidth and faster Internet access—a major boon for computerized telecommuters.

Coupled with Internet and telecommuting applications, ADSL provides online consumers and small businesses with accelerated access to the World Wide Web. As a standalone connection, ADSL allows telecommuting employees and after-hours home workers to connect to their employers' corporate networks via dedicated, secure, high-speed links. All this high-speed data communications capability is delivered over regular telephone lines that, unlike cable modems, provide dedicated bandwidth and secure communications.

The ADSL service will allow users to receive data from the Internet, or to connect to their office's local area network, at speeds up to 6MB per second (Mbps). That's 100 times faster than today's fastest analog telephone modems, which communicate at speeds up to 56KB per second (Kbps).

Due to existing technology and distance limitations, ADSL will not be available to all customers. Initially, it will be offered to about 60% of the households and businesses in Pacific Bell's ADSL-equipped service areas. To receive the service, customers must be located within 16,000 feet of an ADSL-equipped central office and their wiring must meet certain transmission criteria.

While existing phone lines can be adapted for ADSL, extra hardware and software are required, including: an ADSL modem; a "splitter" that divides voice and data line traffic; and a Network Interface Card that connects the modem to a personal computer.

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| SCREEN | INTEL CPU | RAM | HDD | PRICE |
|---|---|---|---|---|
| 12.1" SVGA TFT | 200MMX | 32M | 3.2 GB | $ 1490 |
| 13.3" XGA TFT | 200MMX | 32M | 3.2 GB | $ 1690 |
| 13.3" XGA TFT | 266 TM | 32M | 3.2 GB | $ 2030 |
| 13.3" XGA TFT | PII 233 | 32M | 3.2 GB | $ 2100 |
| 13.3" XGA TFT | PII 266 | 32M | 3.2 GB | $ 2370 |
| 14.1" XGA TFT | 233MMX | 32M | 3.2 GB | $ 1850 |
| 14.1" XGA TFT | PII 233 | 64M | 4.0 GB | $ 2380 |
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| 15.1" XGA TFT | 233MMX | 32M | 3.2 GB | $ 2360 |
| 15.1" XGA TFT | 266 TM | 32M | 3.2 GB | $ 2680 |
| 15.1" XGA TFT | PII 233 | 64M | 4.0 GB | $ 2890 |
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DVD READY✔

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| 13.3" XGA TFT | PII 233 | 32M | 3.2 GB | $ 2080 |
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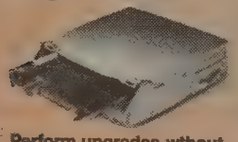

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| Presario 1220 | P-200, 20X | 32MB | 2.1GB | 56K F/M | 12.1" DSTN | $1599 |
| Presario 1620 | P-166, 20X | 16MB | 2.1GB | 56K F/M | 12.1" DSTN | $1799 |
| Presario 1621 | P-233, 20X | 32MB | 2.1GB | 56K F/M | 12.1" HPA | $1999 |
| Presario 1622 | P-233, 20X | 32MB | 2.1GB | 56K F/M | 12.1" HPA | $1899 |
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| Daewoo Nirvana | P-166, 10X | 16MB | 1.4GB/56K | 12.1" TFT | $1799 |
| NEC VERSA 2650CDT | P-150MMX, 10X | 16MB | 1.4GB/56K | 12.1" TFT | $1399 |
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| 380D | P-150MMX | 16MB | 2.1GB | 8X | 12.1" TFT | $1595 |
| 560 | P-133 | 8MB | 2.1GB | N/A | 12.1" DS | $1195 |
| 560E | P-166MMX | 16MB | 2.1GB | N/A | 12.1" DS | $1990 |
| 770 | P-233MMX | 32MB | 4.0GB | 20X | 13.3" TFT | $3290 |
| 770DVD | P-233MMX | 32MB | 4.0GB | DVD | 13.3" TFT | $3290 |
| 770DVD | P-233MMX | 32MB | 5.1GB | DVD | 14.1" TFT | $4185 |

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## ACCESSORIES

| Manufacturer | Product | Price $ |
|---|---|---|
| XIRCOM | 28.8kbs PCMCIA Fax/Modem | $69.00 |
| Megahertz XJ1228 | 33.6kbs PCMCIA Fax/Modem | $99.00 |
| Billionton 56K | 56kbs PCMCIA Fax/Modem | $99.00 |
| Battery | For Compaq Presario 1610, 1620, 1210 | $79.00 |

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AUTHORIZED SERVICE CENTER
SDT

Pacific Bell will provide a one-stop shop for hardware, service, and support and can assist customers in obtaining and installing these devices. California residents can call 1-888-884-2DSL or visit the Pacific Bell Web site at *www.pacbell.com/products/business/fastrak/adsl/* for additional information.

Bell Atlantic also plans to begin offering an ADSL-based data service for consumers in mid-1998, followed shortly thereafter by a business offering. The company is evaluating pricing and deployment locations. By the end of the decade, Bell Atlantic expects ADSL service to be the leading high-speed, network access service in its consumer markets.

Bell Canada and other entities in western countries are jumping on the ADSL bandwagon, as well.

Deployment of ADSL technology has the potential to alleviate some of the pressure the tremendous increase in Internet usage has placed on the public switched telephone network. ADSL technology allows the data traffic that flows to and from a user's PC to be connected directly to a packet switch or router, and sent over an efficient high-speed packet data network, thus keeping such traffic from congesting the public switched network, which is engineered for the lower traffic demands of voice telephone calls.

## Names of Employers That Permit Telecommuting

People seeking jobs as telecommuters usually have great difficulty finding a list of companies that are willing to let their employees telecommute. Part of the problem is that keeping such a list up to date is very time consuming. If you're selling the information, there's a chance you'll take the money and run. And if you're not selling the information, there's little incentive to keep the list current.

As of June, 1998, however, one source of such a free list is the following Web site: *www.admmedia.com/tools/telecom/* .

Naturally, there's no guarantee companies on this list will hire new employees and let them telecommute. Nor is there any assurance that every company willing to permit telecommuting is listed here. But the list does give you a place to start looking for work as a telecommuter.

Remember, the main tips for getting work as a telecommuter include:

**1)** Look for jobs on the basis of your skills and abilities, not your willingness to telecommute. The biggest difference is that you might look a little farther from home, since telecommuting will relieve you of having to make the trip there and back five days a week.

**2)** It's useful to make a job-hunting plan, if only to spell out the specific companies that are your highest potential employers.

**3)** Network with all your friends, neighbors, and acquaintances. There may be a local employer who is friendly to telecommuting, but if you don't ask the right people you may not find him or her.

**4)** Don't bring up the idea of telecommuting during the pre-employment interviews until a potential employer expresses some interest in hiring you.

**5)** Discuss telecommuting with your potential employer in terms of better work and lower costs for the company, not merely in terms of the benefits for you. ◆

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- 32X Speed N.F. CD ROM Drive
- Sound Blaster AWE64 Sound Card w/Wave Table
- 240-Watt 3D Sound Amp. Stereo Speakers
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- 56Kbps Internal Fax/Data V.90 Modem
- Microsoft Windows 95 or CD Package

| ABit LX6 440LX (Jumperless) w/Intel | | Asus (P-II LX97) 440LX w/Intel | |
|---|---|---|---|
| Pentium® II-233 | Pentium® II-266 | Pentium® II-233 | Pentium® II-266 |
| $1,098 | $1,128 | $1,118 | $1,148 |
| Pentium® II-300 | Pentium® II-333 | Pentium® II-300 | Pentium® II-333 |
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- 3.5" 1.44MB Floppy Drive
- Microsoft Intellimouse
- 32X IDE CD ROM Drive
- Sound Blaster AWE64 Sound Card
- 240-Watt Amplified Stereo Speakers
- Multimedia CD Titles†
- 56Kbps Internal Fax/Data/Voice Modem
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Best Buy w/17" Monitor & 64MB RAM

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| $919 | $929 | $899 |
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- 6.4GB Ultra DMA Hard Drive
- 3.5" 1.44MB Floppy Drive
- Microsoft Mouse
- 32X CD ROM Drive
- Sound Blaster AWE64 Sound Card
- 240-Watt 3D Amplified Stereo Speakers
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- 56Kbps Internal Fax/Data V.90 Modem
- Microsoft Windows 95 or98 CD Package

Pentium II 100MHz

| Intel Peniutm II 333 | Intel Peniutm II 350 | Intel Peniutm II 400 |
|---|---|---|
| $1,339 | $1,439 | $1,639 |

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## Printer & Scanner Specials
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| HP 670C<br>4ppm b&w / 1.5ppm-C Ink Jet | HP 692C<br>5ppm b&w / 1.7ppm-C Ink Jet |
| HP 890Cxi<br>9ppm b&w / 5ppm-C Ink Jet | HP 6Lxi<br>600dpi Laster Printer |
| HP 5100Cxi<br>600dpi Scanner (Ptr) | |
| Photomakes 3F<br>300x600dpi w/ISA ctrl | Photomakes 6E<br>600x1200dpi Scanner (Ptr) |

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SunView 17" 2-Y Warranty

Seagate 9.1GB Barracuda UW SCSI

## MOTHERBOARDS
(CPU SOLD SEPARATELY)

ABit (Jumperless)
- Pentium PX5 TX (512K) ..... $69
- Pentium TX5 TX (512K) (Supports AMD266) ..... $75
- Pentium-IILX-440 ..... $105
- Pentium-II BX440 (Supports 100MHz Bus) ..... $145

Aristo
- Pentium TX (512K) ..... $55
- Pentium-II LX440 ..... $79
- Pentium-II BX440 ..... $109

Asus
- SP97 w/Video (512K) SIMM ..... $78
- Pentium TX-P4 (512K) ..... $95
- Pentium TX-97 XE (512K) ATX ..... $119
- Pentium-II P2L97 LX440 ..... $120
- Pentium-II P2L97S LX440 w/Adaptec 2940UW ..... $210
- Pentium-II P2L97-DS LX440 Dual P2 w/2940UW ..... $319
- Pentium-II P2B98 BX440 100MHz Bus ..... $159
- Pentium-II P2B98S BX440 w/Adaptec 2940UW ..... $159
- Pentium-II P2B95-DS BX440 Dual P2 w/2940UW ..... $405

Gen
- Pentium-II LX440 ..... $77
- Pentium-II BX440 ..... $115

SuperMicro
- Pentium-II P6SLA LX440 ..... $129
- Pentium-II P6SLS LX440 w/Ultra SCSI ..... $179
- Pentium-II P6DLE LX440 Dual P2 ..... $235
- Pentium-II P6DLS LX440 Dual P2 w/Ultra SCSI ..... $279
- Pentium-II P6SBA BX440 ..... $145
- Pentium-II P6SBS BX440 w/Ultra SCSI ..... $285
- Pentium-II P6DBE BX440 Dual P2 ..... $265
- Pentium-II P6DBS BX440 Dual P2 w/Ultra SCSI ..... $390

We carry SIMM/DIMM
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## CPUs

- Intel Pentium-II 400MHz ..... $695.98
- Intel Pentium-II 350MHz ..... $495.98
- Intel Pentium-II 333MHz ..... $395.98
- Intel Pentium-II 300MHz ..... $299.98
- Intel Pentium-II 266MHz ..... $199.98
- Intel Pentium-II 233MHz ..... $169.98

- Intel Pentium 233MHz ..... $118.98
- Intel Pentium 200MHz ..... $108.98
- Intel Pentium 166MHz ..... $88.98

- AMD K6-PR233 ..... $78.98
- AMD K6-PR266 ..... $103.98

- Cyrix M2 200MHz ..... $57.98
- Cyrix M2 233MHz ..... $67.98

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- Fujitsu (3-Year Warranty) 3.2GB Ultra DMA IDE ..... $125
- Fujitsu (3-Year Warranty) 4.3GB Ultra IDE ATA ..... CALL

- IBM 6.4GB Ultra DMA IDE ..... $175
- IBM 8.4GB Ultra DMA IDE ..... $235
- IBM 4.3GB Ultra Wide SCSI ..... $255

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- Maxtor 8.4GB Ultra DMA IDE ..... $222.98
- Maxtor 11GB Ultra DMA IDE ..... $285.95

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- Samsung 2.5GB Ultra DMA IDE ..... Call
- Samsung 3.4GB Ultra DMA IDE ..... $119
- Samsung 4.3GB Ultra DMA IDE ..... $128

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- Seagate 2.1GB EIDE ..... CALL
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- Seagate 4.3GB Ultra DMA IDE ..... CALL
- Seagate 4.5GB Ultra Wide SCSI Barracuda ..... $475
- Seagate 9.1GB Ultra Wide SCSI Barracuda ..... $759

- Western Digital 2.5GB Ultra DMA IDE ..... $122
- Western Digital 3.2GB Ultra DMA IDE ..... $128
- Western Digital 4.3GB Ultra DMA IDE ..... $138
- Western Digital 6.4GB Ultra DMA IDE ..... $176
- Western Digital 8.4GB Ultra DMA IDE ..... $235

Availability subject to stock on hand

## CD ROM DRIVES

- 24X-IDE: Cyber ..... $39.98
- 24X-IDE: Toshiba ..... $49.98
- 32X-IDE: Acer (AOpen) Ultra DMA ..... $52.98
- 32X-IDE: Toshiba ..... $59.98

- 24X-SCSI: Teac ..... $88
- 32X-SCSI: Toshiba ..... $89

CDR (w/software)
- Mitsumi 2x8 IDE ..... $240.98
- Panasonic 4x8 SCSI ..... Call
- Teac 4x12 SCSI ..... Call

DVD
- 2X DVD Drive ..... $120
- DVD Mpeg-2 Kit (Toshiba) w/RealMagic MPEG2 Card ..... $225

## SOUND CARDS & SPEAKERS

Creative Technology
- Sound Blaster 16 Vibra (OEM) ..... $28
- Sound Blaster 32 PnP (OEM) ..... $48
- Sound Blaster AWE64 PnP (Retail) Value ..... $82
- Sound Blaster AWE64 PnP (Retail) Value PCI ..... $85
- Sound Blaster AWE64 PnP (OEM) ..... $55
- Sound Blaster 64 Gold (Retail) ..... $125

- Opti Chip 16 IDE Win 95 PnP Comp. ..... $12
- Yamaha 16 IDE Win 95 Comp. w/WaveTable ..... $13

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- ACS43 2 Piece System ..... $39
- ACS45 3 Piece System (w/Subwoofer) ..... $69
- ACS48 Plus 3 Piece System (w/Subwoofer) ..... $119
- ADA305 Surround System (New) USB Support ..... $165

Speakers
- Amplified Speakers 80-Watt ..... $8
- Amplified Speakers 240-Watt w/3D ..... $19
- Eastern AX4139 Subwoofer 20W w/Satellite Spkr ..... $38
- Eastern AX4106 Subwoofer 25W w/Satellite Spkr ..... $43

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- Mini Tower (230W/7.1x15.9x13.0) ..... $18
- Med/H Tower (230W/7.1x15.9x14.7) ..... $23
- Medium Tower (230W/6.7x15.8x18.5) ..... $32
- Full Tower (250W/7.5x16.5x24.4) ..... $42
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- ATX Med Tower w/PS ..... $49
- ATX Full Tower w/PS ..... $69/$73
- Super Tower (File Server) 300W, 2Fan, 10 Bays, Wheels (8.7x17.8x26.8) ATX ..... $145

(Black Cases available - see "Black Components")

## POWER SUPPLIES

- AT PS/2 Slim 250W ..... $15
- AT PS/2 Slim/Full Size 300W ..... $35/$49
- ATX 250W ..... $31
- ATX 300W ..... $45
- 2nd Fan w/Ballbearing for Med/Full Tower ..... $6
- P5 Ball Bearing High Speed Fan "Crystal" ..... $6
- Pentium II Heat Sink Fan (BB) ..... $8

## MONITORS

ViewSonic (Authorized Dealer)

| Model | Size Viewable | Dot Pitch | Max. Res. @ Ref.(Hz) | Other Features | Price |
|---|---|---|---|---|---|
| E655 | 15 / 13.8 | 0.28 | 1280x1024@60 | | $220 |
| E771 | 17 / 16.0 | 0.27 | 1280x1024@66 | | $319 |
| GS771 | 17 / 16.0 | 0.27 | 1280x1024@65 | Compact | $339 |
| G773 | 17 / 16.0 | 0.26 | 1280x1024@66 | *Special $* | $420 |
| GT775 | 17 / 16.0 | 0.25AG | 1600x1280@69 | SonicTron | $520 |
| PT770 | 17 / 16.0 | 0.25AG | 1600x1280@69 | SonicTron | $555 |
| P775 | 17 / 16.0 | 0.25 | 1600x1280@76 | | $459 |
| PT775 | 17 / 16.0 | 0.25AG | 1600x1280@77 | SonicTron | $625 |
| G790 | 19 / 18.0 | 0.26 | 1600x1280@76 | | $580 |
| PS790 | 19 / 18.0 | 0.25 | 1600x1280@76 | Compact | $699 |
| G800 | 20 / 18.4 | 0.28 | 1600x1280@69 | *Special $* | $870 |
| G810 | 21 / 20.0 | 0.25 | 1600x1280@71 | | $899 |
| P810 | 21 / 20.0 | 0.25 | 1600x1280@72 | | $1039 |
| PT813 | 21 / 20.0 | 0.28AG | 1600x1280@85 | SonicTron | $1239 |
| P815 | 21 / 20.0 | 0.25 | 1800x1440@72 | | $1159 |
| EA771B | 17/ 16.0 | 0.27 | 1280x1024@66 | Black/Spkr | $455 |

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- 15" SVGA NI (.28 1280x1024) Digital ..... $135
- 17" SVGA NI (.26 1280x1024) Digital ..... $245
- 14" TTL Mono PW (9-Pin) ..... $75

CTX
- 15" VL500 (.28 1280x1024) F/S Dig ..... $169
- 17" VL700 (.28 1280x1024) F/S Dig ..... $299

Cybervision
- 15" (.28, 1280x1024) ..... $145
- 17" (.27 1280x1024) ..... $260

NEC
- 17" XV17+ (.28 1280x1024 75Hz) ..... $599

Panasonic (3-Yr Warranty 1-Yr On-site)
- 15" S15 ..... $235
- 17" S70 (.27, 1280x1024) Best Buy ..... $369

Sony
- 15" 100ES ..... $309
- 15" 100GS ..... $339
- 17" 200ES ..... $499
- 17" 200GS / PS ..... $569/$715

(Black Monitors available - see "Black Components")

## FLOPPY DRIVES

- Teac 3.5" 1.44MB ..... $17
- Samsung / Mistumi 3.5" 1.44MB ..... $16

## KEYBOARDS

- BTC 104 Win95 AT / PS2 ..... $9 / $10
- NKK 104 Win95 AT / PS2 ..... $8 / $9
- Keytronic KT2000 (USA) Win95 / PS2 ..... $20 / $23
- Focus 2001 w/Dust Cover Win95 ..... $25

## MODEMS

- 56kbps Int F/D/V (RW-Flex) ..... $45
- 56kbps Int F/D/V (CL-X2) ..... $44

- USR 56K F/D/V Int. (OEM) ..... $72
- USR 56K WinFax V.90 Modem (Retail) ..... $88
- USR X2 56K F/D Int/Ext (Retail) Upg.V.90 ..... $99/CALL
- USR X2 56K F/D/V Int/Ext (Retail) Upg. V.90 .... $119/CALL
- USR 56K V.90 Int. (Retail) ..... $109
- USR 56K V.90 Int. Voice (Retail) ..... $129

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IOMEGA
- ZIP 100MB Parallel External ..... $125
- ZIP 100MB IDE Internal ..... $69
- ZIP 100MB IDE Internal w/1 Cartridge ..... $79
- ZIP 100MB SCSI External ..... $139
- Iomega 100MB Zip Cartridge Qty:1 $11 orQty:5+ $10

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Ethernet Card Combo
- PCI (Coax+10BaseT) 2:1 ..... $13

3COM Etherlink III Combo
- ISA (10BaseT) 3C509T ..... $53
- PCI (10BaseT) 10/100MBPS 3C905T ..... $56
- 8-Port 10BaseT Hub (Stackable) ..... $49
- 16-Port 10BaseT Hub (Stackable) ..... $99
- Ethernet Terminator ..... $2
- Cables ..... CALL

## MICE & TRACKBALLS

- LogiTech First MouseMan ..... $18
- Logitech (OEM) Black PS2 Mouse ..... $10
- Shuttle Serial (3-Button) ..... $5

## BLACK COMPONENTS

## VIDEO CARDS

- Mono Graphics w/Printer Port (MGP) ..... $13
- S3-Virge 2M/4M EDO PCI ..... $26/$32
- Trident 9680 1M / 2M MPEG PCI ..... $19/$25

ATi
- Xpert@Work Rage Pro PCI 4M SGRAM PC2TV ..... $85
- Xpert@Work Rage Pro PCI 8M SGRAM PC2TV ..... $125
- Xpert@Work Rage Pro AGP 4M SGRAM PC2TV ..... $88
- Xpert@Work Rage Pro AGP 8M SGRAM PC2TV ..... $128
- All-In-Wonder Rage II Pro 4M / 8M PCI ..... $189/$225
- All-In-Wonder Rage II Pro 4M / 8M AGP ..... $199/$235
- Xpert@Play Pro 4M/8M PCI ..... $95/$135
- Xpert@Play Pro 4M/8M AGP ..... $99/$139
- Xpert XL 4M PCI/AGP ..... $69

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- Viper V330 4M SGRAM PCI/AGP ..... $75
- Stealth Fire Pro GL 4M PCI/AGP ..... $109/$129
- Stealth Fire Pro GL 8M PCI/AGP ..... $135/$155
- Stealth 3D Monster 8M Add-on OEM ..... $195

Matrox (PCI/AGP)
- Millennium II 4M WRAM OEM PCI/AGP ..... $108
- Millennium II 8M WRAM OEM PCI/AGP ..... $155/$165
- M3D 3D-Graphic Add-on (Retail) ..... $75
- G100 (Productiva) 8M AGP .....Special ..... $68
- Millennium II 4M/8M Upgrade Module ..... $69/$155
- Millennium II 12M Upgrade Module ..... $229

## H/F CONTROLLERS & I/O

- ISA IDE 2H/2F w/Hi-Sp AT I/O (Win95) ..... $10
- Special I-Will 2935 UW-SCSI PCI ..... $99

Adaptec (SCSI Controller Card)
- 2940U PCI (OEM) ..... $139
- 2940UW PCI (OEM) ..... $165
- 2940UW PCI (OEM) w/Wide Cable (3H) ..... $179
- 5H Ultra Wide SCSI Cable (48") Extra Long ..... $30

**Minimum Order $300 or Qty 10+.**
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TERMS:1 (one) year warranty on parts & labor. Printers & monitors warranty thru manufacturer. All sales on RAM/CPU's, MONITORS & PRINTERS are final. NO REFUND! All returns are subjected to our approval & must have prior authorization. Return items must be in good condition & in its original packing shipped prepaid & insured. All refunds or credits are less freight & bank charges. All refund items must be returned within 14 days of invoice. There will be a restocking charge of 20% after the 7 days period & within 30 days of invoice. Not responsible for any typographical errors. Price & availability subject to change without any notice. Prices are COD cash / cashiers check.

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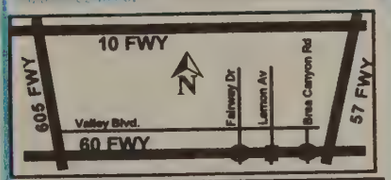



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(MT0798)

# "Hello, World" Java-Style

## *Applets, Servlets, And Old-Fashioned Programs*

*By Bennett Falk*

*Unlike old-fashioned programs, Applets are run in a browser and not from a command line.*

Java is much discussed these days because it is the language that makes applets possible. Applets are little programs, embedded in Web pages, that can be downloaded with the page and executed on the computer of the unsuspecting Internet user.

Since Java's introduction in 1995, Web developers have become enchanted with applets, so much so that applet programming sometimes overshadows the other things that can be done with Java.

Java, it turns out, is not just an applet programming language. It can also be used to create both old-fashioned, stand–alone programs (that need not have anything to do with either the Web or client/server application architecture) and servlets (the less-well understood server-side cousins of applets).

In the interest of better Web applications and more informed cocktail chatter, there follow three and a half adaptations of the obligatory "Hello, World" program to illustrate the use of Java in applets, servlets, and old-fashioned programs. This month's column explains how to code Java programs and applets, and creating servlets.

To work through these exercises, first download the Java Developer's Kit from JavaSoft (or use your favorite visual development environment). To work with the servlet example, you'll also need the Java Servlet Developer's Kit (JSDK) also available from JavaSoft.

### Hello 1

The code below is an old-fashioned program written in Java:

```
// Hello 1
class Hello {
   public static void main (String argv[]) {
         System.out.println("Hello, World!");
   }
}
```

The basic thing that happens in any Java program is the definition of a class. In this example, the class's name is "Hello" (Java class names are case-sensitive).

The Hello class has one method, whose name is "main". "main()" is a special method that will be executed automatically when the Java interpreter is invoked on the Hello class. "main()" is what makes this class a stand-alone program. The "main()" method needs to be declared as shown.

The main() method invokes System.out.println with a single argument (the string "Hello, World!"). System.out.println will print this argument on the standard output.

To compile the Hello class, put the code above in a file named "Hello.java", open a command line interface (a DOS window or a UNIX shell), set the CLASSPATH environment variable to point to the classes bundled with the JDK and feed this file to the Java compiler:

**javac Hello.java**

This command will turn the Java source code into byte codes that the Java Virtual Machine can work with. The byte codes will be stored in a file named "Hello.class". Note that the file name and the declared class name in the file must agree: the source code file for the Hello class must be named "Hello.java". A compiler error results if the file name and class name do not agree.

To execute the Hello class, invoke it by name on a Java command line (again from a DOS window or UNIX shell prompt). Executing the old-fashioned program should look something like this:

```
C:> java Hello
Hello, World!
```

The Java interpreter looked at Hello.class, found a main() method and executed it.

This version of Hello is about as simple as it can get. It's also not good for use as anything but a standalone program. With just a little bit of redesign, Hello can be made much more versatile.

### Hello 1.5

The code below is a standalone program that does the same thing as Hello 1, but it divvies up the work somewhat differently.

*continued on page 106*

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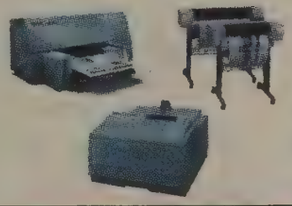

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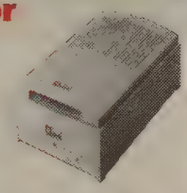

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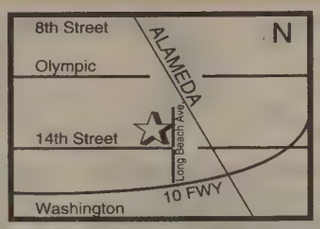


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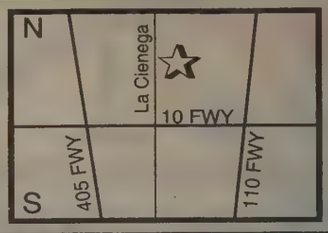


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*continued from page 102*


```
// Hello 1.5:
class Hello {
    public static void main (String argv[]) {
        System.out.println(hello());
    }
    public static String hello() {
        return("Hello, World!");
    }
}
```

Hello 1.5 has two methods: "main()" and "hello()". "main()" executes "System.out.println" on whatever the "hello()" method returns. The important thing to note is that method invocations can be nested.

The "hello()" method is declared to return data of type "String", and in the body of the method, the data passed to the "return()" statement must agree with this declared return type.

Hello 1.5 is compiled and run using the same commands as Hello 1: put the code above in a file named "Hello.java" and use javac to compile the class.

Hello 1.5 will be used again in the servlet example below.

*Java, it turns out, is not just an applet programming language. It can also be used to create both old-fashioned, standalone programs and servlets.*

### Hello 2

The second hello is an applet named "AppletHello". The source code for AppletHello looks like this:

```
// Hello 2: AppletHello
import java.applet.Applet;
import java.awt.Graphics;
public class AppletHello extends Applet {
    public void paint(Graphics g) {
      g.drawString("Hello, World!", 50,50);
    }
}
```

The first thing to note is that "AppletHello" has some dependencies outside the core Java system. Two classes defined elsewhere in the JDK are imported to AppletHello: "java.applet.Applet" defines the basic characteristics of applets and "java.awt.Graphics" defines a graphical object that supports a few basic Graphical User Interface operations.

In the class declaration that follows the two import statements, "AppletHello" is defined as an


*continued on page 110*

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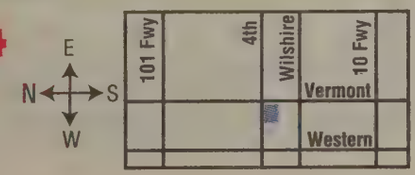

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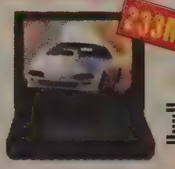

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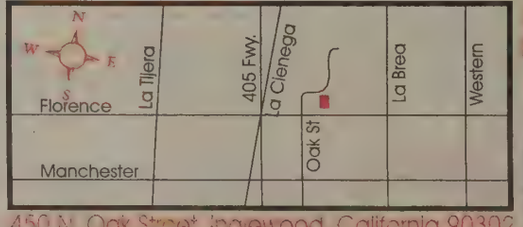


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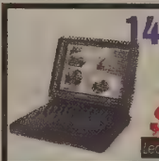

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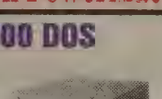

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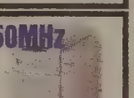

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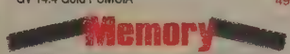
## Memory



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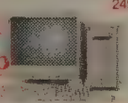

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*continued from page 106*

extension of the Applet class. This means that "AppletHello" inherits all the features defined in the Applet class. It is this relationship to the Applet class that makes "AppletHello" an applet.

Like Hello 1, the "AppletHello" class has one method. Its name is "paint". The "paint()" method assumes the existence of a graphics object: in this case, the object will be supplied by the context in which the "AppletHello" is run. Notice that there is no "main()" method.

The "drawString()" method is part of the definition of the Graphics object. "drawString()" takes three arguments: a string constant and two coordinates that define the location in the display area where the string constant is to be displayed.

The compilation procedure for applets is the same as that for standalone programs. The source code for "AppletHello" must be in a file named "AppletHello.java". The compiler command is:

**javac AppletHello.java**

The compilation produces "AppletHello.class".

Unlike old-fashioned programs, Applets are run in a browser and not from a command line. To launch AppletHello, you'll need a Java-enabled browser (Netscape, Internet Explorer, or HotJava) and an HTML page that tells the browser's Java environment which applet to execute. The HTML page and applet can be loaded from the local file system, so a Web server is not necessary to test AppletHello.

An HTML page to launch "AppletHello" could be as simple as:

```
<html>
<title>"Hello, World" Applet</title>
<body>
<applet code="AppletHello.class" width=200
height=80>
</applet>
</body>
</html>
```

The applet tag in this page identifies the applet to be run and the display area it is allowed to use.

With the HTML page in the same directory as the "AppletHello.class" file, start your browser and use "Open Page" on the browser's File menu to load the HTML page and launch "AppletHello". (The dread "Starting Java..." message will appear in the status line of the browser.) Using the Graphic object provided by the browser, the message "Hello, World!" will be drawn in the display area of the browser window.

### Hello 3

The third hello is a servlet (appropriately named "ServletHello"). Servlets are Java classes that execute in Web Server's Java environment.

Servlets fill a role much like CGI (Common Gateway Interface) programs. Like CGI programs and other server-side resources, servlets are invoked via URL. Anything the servlet returns to the user must use HTML tags (the user's browser is the servlet's only user interface).

*continued on page 222*

*To launch AppletHello, you'll need a Java-enabled browser and an HTML page that tells the browser's Java environment which applet to execute.*

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# Processor Subsystem Performance

## *Chipsets, System Boards, And CPUs*

*By Fabian Pascal*

*Since performance differences between boards are negligible, reliability, compatibility, features, and support become more critical issues.*

*You may want to review three of my previous articles (issues 171, 174, 177 at* www.microtimes.com *as background for the following. A more detailed description of the testing tools, with links to their home pages, is posted on this series' page* (www.microtimes.com/32bitres.html), *together with other useful information.*

As we've already explained, the system board (with the chipset around which it is built) is an important component of all PC subsystems. The following chipsets currently support the 100MHz memory (front-side) bus (FSB):

- Slot 1: Intel 440BX
- Super7: VIA MVP3

### Acer Labs (ALi) Aladdin V

One of the articles mentioned above provides general guidelines for choosing a system board. Because performance differences between boards have shrunk to about 1–2%, reliability, compatibility, features, and support are becoming more important (see *http://sysdoc.pair.com* , *www.anandtech.com*). We'll mention some useful features specific to Slot 1 and Super7 boards as we go along.

Several manufacturers have started shipping Super7 boards. Reliability, compatibility, size of L2 cache, ease of configuration, and overclockability are issues with Super7 boards and a function of both the chipset and the board implementation. K6-2 (formerly known as K6-3D) is the first CPU supporting the Super7 100MHz FSB. There are 266 and 300MHz versions, with 333 and 350 forthcoming.

I have chosen to test the Abit BX6 Slot 1 mainboard. It is reliable and offers all the features other boards do, but also some unique ones. Its SoftMenu BIOS feature allows not only for a wide range of jumperless preset combinations of CPU (233–400MHz) and bus (66–100MHz) speeds, but also user defined combinations at bus speeds of 103, 112 and 133MHz. This, together with the user-adjustable CPU voltage in .05V increments are important for overclocking (see below).

The Slot 1 CPUs supporting 100MHz FSB are the PII400 and PII350 (Deschutes). Since Intel does not provide review units, I borrowed a PII350 from Abit to compare the Deschutes with the PII300 (Klamath), which supports the 66MHz FSB.

### Memory

The 100MHz FSB requires 8ns SDRAM compliant with the PC100 specifications. 10ns SDRAM is unlikely to work; even if it does, reliability is questionable. According to ATP's Don Dilley: "Memory can exceed specs, and such memory is sampled out in small quantity by the big foundries for future engineering development work. I doubt that most memory vendors can even buy such a sample, let alone an end-user. Only in this sense can non-PC100 memory work well at higher bus rates [and even if it does] there is little or no noise margin left, so you are likely running on the edge of disaster. I doubt if 66MHz SDRAM can run a 24 hour RAMExam memory diagnostic at 100MHz."

Reliability and compatibility depend on PC100 adherence and quality assurance by manufacturers. This varies across chip brands (and even across modules of the same brand) and so does price. Dilley advises: "[There are] bargains occasionally, but in general you get what you pay for in memory chips—the inexpensive ones do not perform with anything like the noise margins of the more expensive ones. It has not been easy for even top-of-the-line manufacturers to meet the stringent new specs, so guess what the ne'er-do-wells are giving us? Just because some cheap chips on a module run an application or test doesn't necessarily mean they will run reliably for a year under the varying and demanding real life environments. With new technology, I recommend the more expensive brands."

Currently, there are two types of PC100 SDRAM: CAS2 and CAS3. CAS latency (previously known as wait-states) is the number of clock cycles from a read command to the time the data is available on an open page. Because it is faster by up to 4% than CAS3 (three cycles) and the price difference minor to none, I recommend CAS2 (two cycles). Some system components

*continued on page 116*

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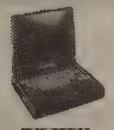

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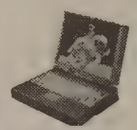

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• 6.1" TFT
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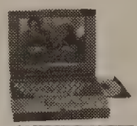
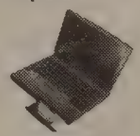


CANON 475 CDT
• P-100 • 16MB RAM
• 810MB HDD • 4X CD-ROM w/sound
• Win 95 • 11.3" Active
**$989**



TOSHIBA 700CS
• P-120 MHz • 8MB RAM • 1.2GB HDD
• 4X CD • Win95
• 11.3" Dual Scan
**$929**

## NOTEBOOK REPAIR, PARTS, LCD SCREENS, HARD DRIVES, MEMORY!

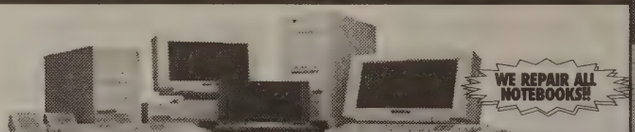
| | | | |
|---|---|---|---|
| **TI 560CDT**<br>• P75 • 24MB RAM • 810MB HDD<br>• 8X CD-ROM<br>• 10.4" Active Color<br>**$889/ $33 mo.** | **TOSHIBA 770CT**<br>• P-120 • 16MB RAM<br>• 1.2GB HDD<br>• 4X CD-ROM • TFT<br>**$1089/ $40 mo.** | **CTX P-150MHz**<br>• 16MB RAM<br>• 1.4 HDD • 16X CD-ROM<br>• Win 95 • 12.1" Dual Color<br>**$1049/ $39 mo.** | **PANASONIC CF 62**<br>• P-100MHz • 32MB RAM • 810MB HDD<br>• 4X CD • Optical Drive<br>• 12.1" Active<br>**$1099/ $41 mo.** |
| **TOSHIBA 325CDS**<br>• P-233 MMX™ • 132MB RAM<br>• 4.0GB HDD • 20X CD • 56K Fax<br>• 12.1" Dual Scan<br>**$1669/ $62 mo.** | **NEC-6200MX**<br>• P-166MMX • 32MB RAM<br>• 2.1GB HDD • 10X CD-ROM<br>• Win NT • 13.3" Active Color<br>**$1699/ $63 mo.** | **DECS P-233MMX**<br>• P-233 MMX™ • 32MB RAM<br>• 3.2GB HDD • 24X CD<br>• 56K Fax • 12.1" TFT<br>**$1699/ $63 mo.** | **Sunrox JF 79**<br>• PII-233 MHz • 64MB RAM<br>• 3.0GB HDD • 24X CD-ROM<br>• Color • 14.1" XGA<br>**$3099/ $115 mo.** |

**Upgrade Your 386 or 486 to Intel PENTIUM® MMX™!**
PENTIUM® system board w/32MB RAM, 2MB 3D video, mini tower case, PS-2 mouse, plus all your extra parts, all labor & configuration included.
**Intel MMX™ 200 - $299** **Intel MMX™ 233 - $319**

## 3 YR WARRANTY ON MACRO PCs

| MACRO STARTER | MACRO INTERNET | MACRO PRO SYSTEM |
|---|---|---|
| INTEL TX, 512K CACHE | INTEL TX, 512K CACHE | INTEL LX, 512K CACHE |
| 16MB EDO RAM | 32MB EDO RAM | 64MB EDO RAM |
| 2.1GB HARD DRIVE | 4.3GB HARD DRIVE | 6.4GB HARD DRIVE |
| 2MB PCI VIDEO, 1.44 FDD | 4MB PCI VIDEO, 1.44 FDD | 4MB PCI VIDEO, 1.44 FDD |
| 16X CD, 64 VOICE SOUND | 32X CD, 64 VOICE SOUND | 32X CD, 64 VOICE SOUND |
| 80W SPKRS, MINI TOWER | 80W SPKRS, MINI TOWER | 80W SPKRS, MINI TOWER |
| 33.6K VOICE-FAX-MODEM | 56K VOICE-FAX-MODEM | 56K VOICE-FAX-MODEM |
| 104 KEYBOARD, PS-2 MOUSE | 104 KEYBOARD, PS-2 MOUSE | 104 KEYBOARD, PS-2 MOUSE |
| WINDOWS 95 ON CD | WINDOWS 95 ON CD | WINDOWS 95 ON CD |
| 3-YEAR WARRANTY | 3-YEAR WARRANTY | 3-YEAR WARRANTY |

| | | | | | |
|---|---|---|---|---|---|
| Cyrix MMX-200 | $659 | AMD K6-233 | $739 | Pentium® II-266 | $1129 |
| AMD K6-233 | $669 | Intel MMX-200 | $759 | Pentium® II-300 | $1249 |
| Intel MMX-200 | $699 | Intel MMX-233 | $779 | Pentium® II-333 | $1399 |
| Intel MMX-233 | $719 | Pentium® II-266 | $999 | Pentium® II-400 | $1799 |




| * NOTEBOOK MEMORY * | |
|---|---|
| TOSHIBA 4MB/8MB/16MB | $49/89/129 |
| DELL 4MB/8MB/16MB | $49/89/129 |
| COMPAQ 4MB/8MB/16MB | $49/89/129 |
| **MULTIMEDIA/ CD-ROMS** | |
| 16X/24X/32X IDE/INT CD-ROM | $49/59/79 |
| 16X/24X/32X IDE/INT KITS | $99/109/129 |
| 16-BIT SB COMP SOUND CARD | $24 |
| **MONITORS** | |
| ARCUS 14" 1024x768 .28DP | $135 |
| ARCUS 15" 1280x1024 .28DP | $189 |
| ARCUS 17" 1280x1024 .27DP | $299 |

| * PC MEMORY UPGRADES * | |
|---|---|
| 30-PIN SIMMS 1/4MB | $8/16 |
| 72-PIN SIMMS1x32/1x36 70NS (4MB) | $14/24 |
| 2x32/2x36 70NS (8MB) | $19/29 |
| 4x32/4x36 70NS (16MB) | $29/39 |
| 8x32 EDO 60NS (32MB) | $49 |
| **HARD DRIVES** | |
| 2.0GB EIDE 3.5" IDE | $129 |
| 2.5GB EIDE HDD | $139 |
| 3.2GB EIDE HDD | $149 |
| 4.3GB EIDE HDD | $159 |
| 6.4GB EIDE HDD | $229 |
| 2GB SCSI 3.5" HDD | $199 |
| 1.3/2.0GB 2.5" NOTEBOOK HDD | $129/219 |

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LAGUNA HILLS, CA 92653
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Sat. 10-3

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*continued from page 112*


may not run reliably at the CAS2 BIOS setting (even if the system boots), but I have not seen such problems with the configuration in Listing 1.

Your safest bet is PC100 SDRAM officially supported by, or tested with your system board. In particular, beware of fake PC100 claims. CAS2 DIMMs from APT Electronics (Toshiba chips) and Kingston Technology work with

## Listing 1: Recommended System

### System Board

**BX6, $148–$172**
Abit Computer
(510)623-0500
*www.abit-usa.com*

### Processor Subsystem

**PentiumII/300MHz Processor, $309–$423**
Intel Corp.
*www.intel.com*

**128MB PC100 CAS2 SDRAM**

**ATP Electronics**
(408)732-5000
*www.atpusa.com*
**Kingston Technology, $585** (MSRP)
1-888-435-5461
*www.kingston.com*
**Unigen Corp.**
(510)668-2088
*www.unigen.com*

### Graphics Subsystem

**FlexScan FX-E8 21" monitor, $1929–$1950**
Eizo-Nanao Technologies
(562)431-5011
www.eizo.com

**Xpert@Work AGP Graphics Adapter 8MB, $91–$105**
ATI Technologies Inc.
(905)882-2600
*www.atitech.com*

### SCSI Disk Subsystem

**AHA2940UW UltraWide Controller, $175–$239**
Adaptec Inc.
(408)945-8600
*www.adaptec.com*

**UltraStar 9ZX UltraWide 9GB disk drive, $1250–$1318**
IBM Storage Systems Division
1-800-IBM-7777
*www.ibm.com/storage*

**VikingII 9GB UltraWide disk drive, $708–$990**
Quantum Corp.
(408)894-4000
*www.quantum.com*

**SyJet 1.5GB Removable disk drive, $245–$300**
SyQuest Technology
(510)226-4000
*www.syquest.com*

**UltraPlex 32X Ultra CD-ROM drive, $257–$279**
Plextor Corp.
1-800-886-3935
*www.plextor.com*

**SCSIVue Cables**
68pin HD Ultrawide Teflon Ribbon w. terminator
50pin Centronics Teflon Ribbon w. terminator
price per # of drives
**External Gold Diagnostic 68pin-to-50pin HD, $89**
**SCSIVue Gold Diagnostic Active Terminator 50pin HD, $79** (direct)
Granite Digital
(510)471-6442
*www.scsipro.com*

### Floppy Disk Subsystem

**SuperDisk LS-120 IDE floppy drive, $95**
Imation Enterprises Corp.
1-888-466-3456
*www.imation.com*

### Mouse/Keyboard

**Cordless Desktop** (keyboard and mouse), **$72–$89**
Logitech Inc.
(510)713-4220
*www.logitech.com*

### Assembly

**ATX Lockable MidTower Case, $191** (direct)
**ATX 300W Power Supply, $88.50** (direct)
**80mm Ball-Bearing Fan (2), $14.50** (direct)
**Bay Cooler, $32.50** (direct)
**Data Port VI Removable Module (hard drives), $145** (direct)
California PC Products
(408)637-2250
*www.calpc.com*

**Data Express Removable Drive Enclosures**
**DE-75 (hard drives), $207** (MSRP)
**DE-150 (removable drives), $186** (MSRP)
**DX-100 Kit Option, $29** (MSRP)
**Hot Swap Option, $64** (MSRP)
Kingston Technology
1-888-435-5461
*www.kingston.com*

**System integration**
(price on per-case basis)
DSi
1629 Jackson St.
San Francisco, CA 94109
(415)922-4366
*www.dsi2000.com*

(Prices are mail order, unless specified otherwise)

**System configuration in Listing 1:**
WindowsNT Workstation 4.0, Service Pack 3, default caching; Graphics mode: 1600x1200x85 65K colors


*continued on page 120*

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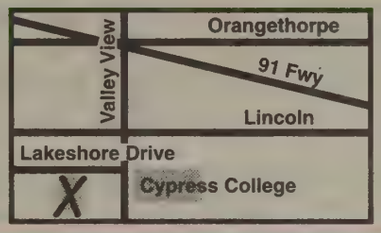



## ViewSonic® VPA138

- 2.5" Profile
- Active matrix
- 15" Equivalent LCD Monitor (14") Viewable Screen
- 1024x768 Max Resolution

**$799**

## ViewSonic® P815

- 21" Monitor (20") Viewable Screen
- 1800x1440 Max Resolution
- .25 DPI

**$1139**
Limited Quantities

## ViewSonic® G790

- 19" Monitor (18") Viewable Screen
- 1600x1280 Max Resolution
- .26DPI

**$595**

## OPTIQUEST® V95

- 19" Monitor (18.0") Viewable Screen
- 1600x1280 Max Resolution
- .26 DPI

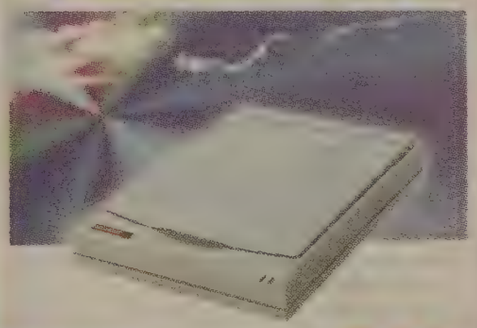
**$569**

## UPGRADES FOR SYSTEM

| | |
|---|---|
| 15" Monitor Add | $125 |
| 17" Monitor Add | $199 |
| 64MB SDRAM Add | $45 |
| 64MB PC-100 SDRAM Add | $40 |
| 6.1GB Maxtor Hard Drive Ultra DMA Add | $45 |
| 8.4GB Maxtor Hard Drive Ultra DMA Add | $100 |

**FREE! SQ1030 Scanner With Any Purchase of Any System**

## SCANPORT



**SQ2030 . . . . . $69**
- 30-Bit Color Optical
- Optical Resolution: 300x600dpi
- Interpolated Resolution: 4800x4800
- 32-Bit Twain Driver

**SQ9600 . . . . . $209**
- 30-Bit Color Optical
- Optical Resolution: 600x1200dpi
- Interpolated Resolution: 900x9600
- 32-Bit Twain Driver

**SQ4836T . . . . . $129**
- 36-Bit Color Optical
- Optical Resolution: 300x600dpi
- Interpolated Resolution: 4800x4800
- 32-Bit Twain Driver

FREE 35mm FILM SCANNER

**SQ300 . . . . . $95**
- 36-Bit Color Optical
- Optical Resolution: 300x600dpi
- Interpolated Resolution: 4800x4800
- 32-Bit Twain Driver

NEW SUPER SLIM MODEL

## INTEL PENTIUM® II SYSTEM

- ATX 440LX M/B w/AGP & 512K Cache
- 32MB SDRAM Memory
- Mid Tower ATX Case w/250 Watt P/S
- 1.44MB Floppy Drive
- 4.3GB Maxtor Hard Drive Ultra DMA
- 36X CD-ROM Drive
- 16-Bit Sound Card
- S3 Virge 3D 4MB VGA
- 104 Key Windows 95 Keyboard
- 56K Fax/Modem w/Voice
- High Resolution Mouse
- Windows 98 CD Version

**Pentium® II 266MHz . . $799**
**Pentium® II 300MHz . . $899**
**Pentium® II 333MHz . . $999**

## INTEL PENTIUM® II SYSTEM

- Pentium® II 440BX M/B w/AGP 100MHz & 512K Cache
- 32MB P100 Memory
- Mid Tower ATX Case w/250 Watt P/S
- 1.44MB Floppy Drive
- 4.3GB Maxtor Hard Drive Ultra DMA
- 36X CD-ROM Drive
- 16-Bit Sound Blaster
- S3 Virge 3D 4MB VGA
- 104 Key Windows 95 Keyboard
- 56K Fax/Modem w/Voice
- Windows 98

**Pentium® II 350MHz . $1349**
**Pentium® II 400MHz . $1549**

Prices and configurations are subject to change without notice. 1-year parts and labor warranty. 15-day money-back guarantee. 25% restocking fee applicable after 15 days. Merchandise must be returned in original packaging and in a new manner. 3% handling fee is applicable to all credit card purchases. No checks accepted.

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## PC SERVER 330

IBM PC Server 330
Pentium II Technology
SMP Capable ( 2 Processor Maximum )
512K of L2 Cache
64MB of ECC Memory (512MB / 1024MB max.)
Ultra Wide/RAID SCSI 2 PCI SCSI Controller
6 PCI / ISA Slots Available
10 Drive bays available / 6 Hot Swappable
10/100 integrated Ethernet Adapter
101 Key Keyboard
IBM PS/2 Mouse
IBM Netfinity Software

| DESCRIPTION | TOTAL |
|---|---|
| PC SERVER 330 P2-300/512 64MB, HP, RAID | $2,941.40 |
| PC SERVER 330 P2-333/512 64MB, HP, RAID | $3,846.70 |

## NETFINITY 3500

IBM Netfinity 3500
Pentium II Technology
SMP Capable ( 2 Processor Maximum )
512K of L2 Cache
32/64MB of ECC Memory (512MB max.)
Ultra Wide SCSI 2 PCI SCSI Controller
6 PCI / ISA Slots Available • 6 Drive bays available
24X SCSI CD ROM Drive
10/100 integrated Ethernet Adapter
101 Key Keyboard
IBM PS/2 Mouse
IBM Netfinity Software

| DESCRIPTION | TOTAL |
|---|---|
| NETFINITY 3500 P2-233 32MB 512K | $2,018.50 |
| NETFINITY 3500 P2-266 64MB 512K | $2,376.00 |
| NETFINITY 3500 P2-333 64MB 512K | $2,885.30 |

## NETFINITY 5500

IBM Netfinity 5500
Pentium II Technology
SMP Capable (2 Processor Maximum)
512K of L2 Cache
128MB of ECC Memory (1024MB max.)
Ultra Wide SCSI 2 PCI SCSI Controller
6 PCI/ISA Slots Available
6 Drive bays available
32X SCSI CD ROM Drive
10/100 integrated Ethernet Adapter
101 Key Keyboard
IBM PS/2 Mouse
IBM Netfinity Software

| DESCRIPTION | TOTAL |
|---|---|
| NETFINITY 5500 P2-350 TOWER | $6,138.00 |
| NETFINITY 5500 P2-350 RACK | $6,369.00 |
| NETFINITY 5500 P2-400 TOWER | $6,589.00 |
| NETFINITY 5500 P2-400 RACK | $6,809.00 |

## IBM STORAGE

| DESCRIPTION | TOTAL |
|---|---|
| 9.10GB SCSI Ultra-Wide 7200RPM Hot Swap | Call |
| 18.2GB SCSI Ultra-Wide 7200RPM Hot Swap | Call |
| 9.10GB SCSI Ultra-Wide 7200RPM UltraStar 2XP | Call |
| 4.30 SCSI Ultra-Wide 5400RPM UltraStar 2ES | Call |

## IBM TAPE BACKUP UNIT

| DESCRIPTION | TOTAL |
|---|---|
| TR4 4.0/8.0GB INT SCSI2 3.5IN Tape Backup | $516.82 |
| Travan TR-4 Data Cartridge 4 GB/8 GB | $139.65 |

## INTRANETWARE

NOVELL.

| DESCRIPTION | TOTAL |
|---|---|
| Novell Intranetware w/ 5 User Lic Small Business | $638.59 |
| Novell Intranetware SB additional 1 user lic. | $47.75 |
| Novell Intranetware SB additional 5 user lic. | $235.29 |

## WINDOWS NT

Microsoft WindowsNT

| DESCRIPTION | TOTAL |
|---|---|
| Windows NT 4.0 w/ 5 Lic. And Action Pack | $714.52 |
| Windows NT 4.0 w/ 10 Lic. And Action Pack. | $1,028.50 |
| Windows NT 4.0 1 additional Client Access Lic. | $33.72 |
| Windows NT 4.0 20 additional Client Access Lic. | $641.30 |

## WINDOWS NT BACKOFFICE SB SUITE

Microsoft WindowsNT

| DESCRIPTION | TOTAL |
|---|---|
| Back Office Small Business Server 4.0 w/ 5 Lic. | $1,412.40 |
| Back Office 5 User License add-on Pack | $301.95 |

**GET ENORMOUS SAVING** *on licenses and pay only $10.00 for any upgrade to your Microsoft Product! Call today for your Microsoft Open License Program (MOLP) pricing - 1888-ALINCO-9.*
*Note: BackOffice Small Business Pack comes with the following: NT Server 4.0 (max 25 Users) w/ IIS, SQL Server 6.5, Exchange Server 5.0 w/Outlook, Proxy Server 1.0, Frontpage, Index Server, Fax Server, Shared Network Modem, Internet Connection Wizard, Internet Explorer.*

## Aii - PENTIUM® NETSTATIONS

- Aii - Pentium MMX Workstations
- 64MB of Memory
- Intel Pentium MMX CPU
- Triton III Chipset w/ 512k Pipeline Cache
- 2 Serial, 1 Parallel Port, Enhanced IDE I/O
- 3.5" 1.44MB Floppy Disk Drive
- 2 GB Enhanced IDE Hard Disk Drive
- 3Com XL TPO 10 /100 NIC
- S3 Super VGA PCI Video Adapter
- Mini Tower Case w/ 230 Watt Power Supply
- 14" Shamrock SVGA Monitor .28
- 104 Key Windows 95 Keyboard
- Microsoft compatible Mouse
- Ms Windows 95

**1W/ Intel 233Mhz MMX Processor** ..... **$760.73**

## Aii - PENTIUM® II NETSTATIONS

- Aii - Pentium II MMX Workstations
- 64Mb 168-Pin Scram of Memory
- Intel Pentium II MMX CPU Fan
- Intel Pentium II 440LX AGP w/ 512K
- 2 Serial, 1 Parallel Port, Enhanced IDE I/O
- 3.5" 1.44MB Floppy Disk Drive
- 3.2 GB Enhanced IDE Hard Disk Drive
- 3Com XL TPO 10 /100 NIC
- S3 Super VGA AGP Video Adapter
- Mini Tower ATX Case w/ 230 Watt Power Supply
- 15" Shamrock SVGA Monitor .28
- 104 Key Windows 95 Keyboard
- Microsoft compatible Mouse
- Ms Windows 95

| | |
|---|---|
| **1W/ Intel P2 - 233Mhz MMX Processor** | **$1,005.95** |
| **1W/ Intel P2 - 266Mhz MMX Processor** | **$1,034.55** |
| **1W/ Intel P2 - 300Mhz MMX Processor** | **$1,047.75** |
| **1W/ Intel P2 - 333Mhz MMX Processor** | **$1,026.30** |
| **1W/ Intel P2 - 400Mhz MMX Processor** | **$1,584.55** |

## CITRIX SOLUTION

CITRIX

| DESCRIPTION | TOTAL |
|---|---|
| Citrix Winframe version 1.7 (5 Users) WG edition | $1,715.38 |
| Citrix Winframe version 1.7 (15 Users) Ent. Edition | $4,134.93 |

## ETSCAPE SOLUTIONS

Netscape® Solution Expert

| DESCRIPTION | TOTAL |
|---|---|
| Netscape Suitespot PRO version 3.5 | Call |
| Netscape Enterprise Server version 3.01 | Call |
| Netscape Message Server version 3.01 | Call |
| Netscape Calendar Server version 3.01 | Call |
| Netscape Directory Server version 3.0 | Call |
| Netscape Collabra Server version 3.5 | Call |

## APC UPS

APC

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|---|---|
| Smart-UPS 700VA Line LAN | $360.66 |
| Smart-UPS 700VA Line LAN Rack Mount | $442.83 |
| Smart-UPS 1000VA Line LAN SUVS | $424.23 |
| 1Smart-UPS 1000VA Line LAN Rack Mount | $580.27 |
| 1Smart-UPS 1400VA Line LAN SU | $628.85 |
| 1Smart-UPS 1400VA Line LAN Rack MountSU1400 | $745.80 |

## 3COM SWITCHED HUB

3Com®

| | |
|---|---|
| SuperStack II Switch 12 Port 10 | $502.70 |
| SuperStack II port Switch hub 24-Port 10BT | $835.23 |
| SuperStack II Switch 1000 12 10BT, 1 100BTX | $757.90 |
| SuperStack II Switch 1000 24 10BT, 1 100BTX | $996.60 |
| SuperStack II Switch 3000 12 10BT/ 100BTX Auto | $1,308.50 |
| SuperStack II Switch 3000 24 10BT/ 100BTX Auto | $2,523.40 |

Prices Subject to Change

## DIAL-IN / DIAL-OUT DEVICES

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**$531.56**

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## CTI SOLUTIONS

CALLWARE CTI solutions

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|---|---|
| Caller Standard Series 5 4 Port | $1,052.62 |
| Caller Standard Series 5 8 Port | $2,095.09 |
| Caller Standard Series 5 12 Port | $4,404.85 |

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| QTY | Description | p/hr | Total |
|---|---|---|---|
| 1 | Hour Labor | $125.00 | $125.00 |
| 20 | Hours prepaid Bulk Labor | $100.00 | $2,000.00 |
| 40 | Hours prepaid Bulk Labor | $85.00 | $3,400.00 |

Note:
All labor hours are billed at 2 hours minimum.
Telephone Supports are billed by half-hour increments.

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- 1.44 Floppy & PCI Local Bus Enhanced IDE Ctlr.
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- 15" Non Interlaced .28 Monitor
- PCI 56K Fax Modem w/ Voicemail (V.90 standard)
- 2 Serial /1 Parallel / 104 -Key Win'95 Keyboard
- High-Res Mouse , Extra Heat Sink and Fan
- Tower Case with 230 Watts of Power
- Windows '98 CD With Manual
- Lotus Smart Suite CD

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AMD K6 300 MHz MMX ..... $849.00

* Pentium II based system with Intel (440BX) AGPset

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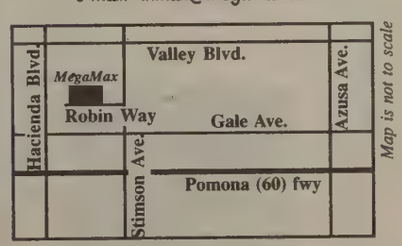

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*continued from page 116*

the BX6 board, so I have included both brands as options. But as Dilley indicates, reliability must be assessed after considerable, varied use. RAMExam (*www.qualitas.com*) is a memory testing utility which can detect problems before they affect applications.

## Performance

To isolate the effect of just the faster bus, everything except the bus speed must be held constant, which means running the PII300 at 100MHz, beyond its specification, or overclocking it. BX6's SoftMenu provides a convenient 300(100) setting for this (with other boards tape, or nail varnish may have to be applied to a CPU connector). Since the Unigen 10ns SDRAM I used with the LX board would not work at 100MHz, I used 128MB PC100 CAS2 SDRAM modules at both bus speeds (at 66MHz it runs as fast as 10ns SDRAM).

I tested performance with the PII300 at 66MHz and 100MHz, then with the PII350 at 100MHz for the combined effect of the faster bus and CPU. I ran three sets of benchmarks:

- MemBench measures L1 cache, L2 cache, and memory bandwidth
- Ziff-Davis Winstone 98 measures system level application performance
- Byte's BYTEMark and Ziff-Davis' CPUMark32 measure the performance of the CPU per se, in isolation (the latter is also affected by the system board and memory, which must be kept constant).

As Michael Krech notes: "Current processors run at very high rates internally, but are slower externally. Only what fits in the PII's 32KB internal (or L1) cache runs at the CPU's speed. Bigger programs/data must be read from the 512KB secondary (L2) cache, which operates at half the CPU rate; real big programs/data which cannot fit in L2 must be read from main memory (or even from disk, if they are swapped). That's why memory and L2 cache read/write/transfer rates (in short, bandwidth) are very important and why a 233MHz processor is less than 5% faster than the same one at 200 MHz in processor intensive applications!"

Krech developed the MemBench utility (*www.intelligentfirm.com*), which runs in DOS protected mode to measure the maximum bandwidth (in MB/sec) that a processor subsystem is capable of.

The MemBench results in Figure 1 demonstrate Krech's point: L1 cache operations—at CPU speed—can achieve more than 1GB/sec, L2 cache 200–500MB/sec (actually less than half the CPU speed) and main memory only 30–200MB/sec! To use the pipe metaphor, memory is the narrowest section of the subsystem.

The 66 to 100MHz increase is 50%. Figure 1 shows that the actual increases in memory bandwidth are 43% for reads, 44% for transfers (read + write), 35% for writes and only about 13–16% for random operations. Cache bandwidth is not affected (see concluding section).

But for the user the question is whether this translates into application gains. Winstone 98 results in Table 1 show that popular business applications gain only about 2% overall from the faster bus, with gains for individual applications ranging from about 1% for word-processing to less than 3% for browsers. High-end applications (more graphics intensive) gain only slightly

**Table 1: CPU Performance**

| CPU | 300 | 350 |
|---|---|---|
| CPUmark32** | 755 | 882 |
| FPU WinMark** | 1550 | 1800 |
| Integer Index*** | 4.22 | 4.88 |
| FP Index*** | 4.84 | 5.52 |

** Ziff-Davis Winbench 98™ v.1.0 *** BYTEmark™ v.2

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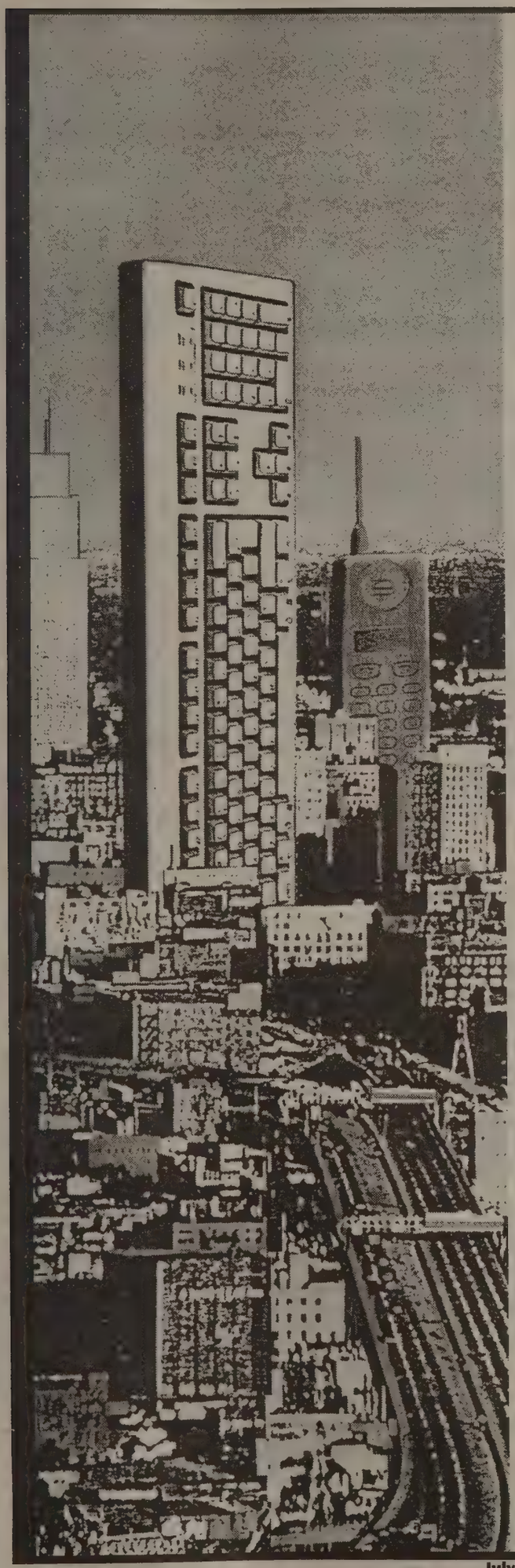

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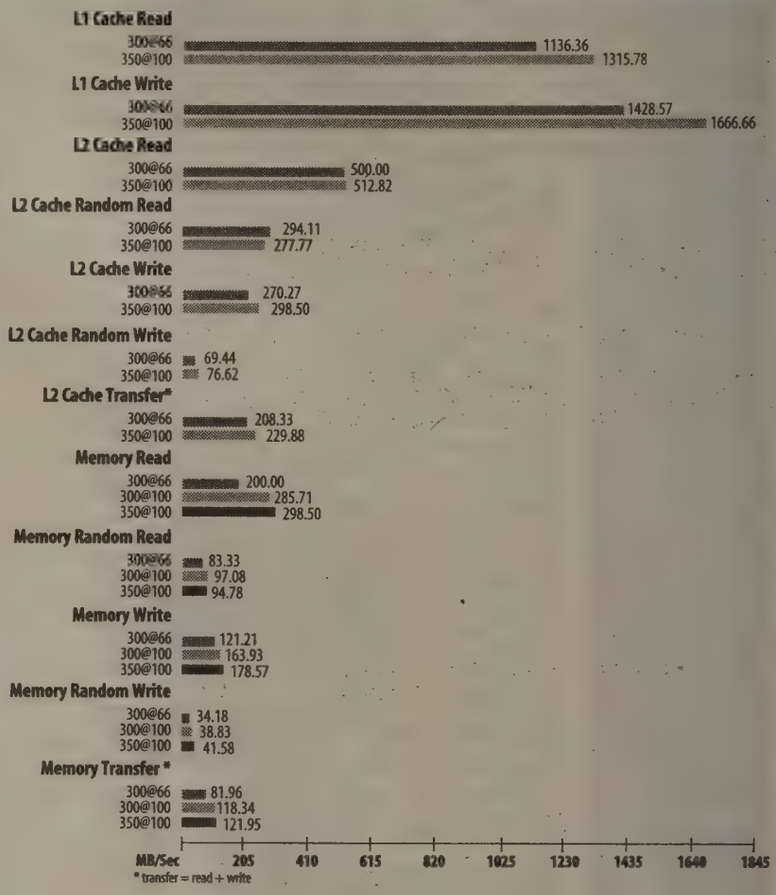
**Fig. 1: MemBench Results—bus speed, CPU speed, and bandwidth**




more—over 3% overall, with application gains from over 2% for Photoshop, to over 7% for AVS/Express.

Does a faster CPU that officially supports the 100MHz FSB help? The BYTEMark and CPUMark32 results in Table 1 show that the PII350 is faster than the PII300 by 14.1%–16.8%; Figure 1 shows that the L1 bandwidth of the PII350@100 configuration is higher than that of the PII300@66 one by 15.9%–16.7%—in line with the 16.7% clock rate difference between the two CPUs. For memory, the gains are from 13.7%–21.7% for random operations, up to 47%–49% for sequential operations, which sets the CPU effect to 4%–8% over the bus effect. But for the L2 cache the gain shrinks to about 11% for writes and transfers, 2.6% for reads and for random operations there is either no effect, or even a decrease!

**Table 2: Application Performance—Winstone 98***

| CPU@Bus | 300@66 | 300@100 | 350@100 |
|---|---|---|---|
| Browsers | 3.80 | 3.91 | 4.24 |
| WP | 3.03 | 3.07 | 3.36 |
| SS/Database | 2.42 | 2.47 | 2.59 |
| Publishing | 3.29 | 3.38 | 3.69 |
| Task Switching | 2.67 | 2.72 | 2.84 |
| Winstone 98 | 29.4 | 30.1 | 32.4 |
| AVS/Express | 2.53 | 2.71 | 3.04 |
| FrontPage 97 | 2.31 | 2.37 | 2.52 |
| MicroStation 95 | 2.40 | 2.46 | 2.74 |
| Photoshop 4.0 | 3.54 | 3.62 | 4.06 |
| Premiere 4.2 | 2.65 | 2.73 | 2.88 |
| PV-WAVE 6.1 | 4.21 | 4.38 | 4.94 |
| Visual C++ 5.0 | 4.45 | 4.60 | 5.05 |
| High-End Winstone 98 | 29.6 | 30.6 | 33.6 |

* Ziff-Davis Winstone 98™ v.1.0

Table 2 shows that, overall, business applications gain 10% from the combined CPU and bus upgrade, with individual gains ranging from over 6% for task switching to almost 12% for word-processing. High-end applications gain more—over 13% overall, with individual gains from close to 9% for Premiere, to over 13% for AVS/Express. This sets the effect of the CPU to 4.5%–13.1% over the bus effect.

*continued on page 219*

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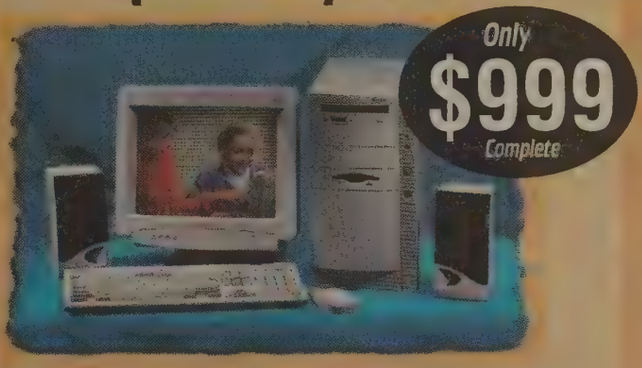


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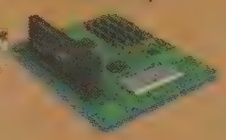

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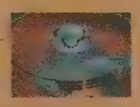

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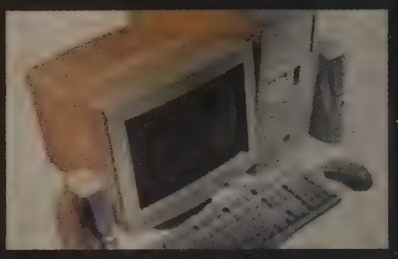

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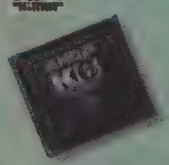

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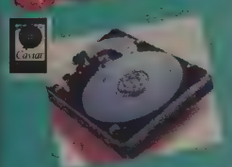

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# Working With Big Documents

## *Further Explorations In The Cave Of Word*

*By Birrell Walsh*

The skills needed to create a large document are more than, and different from, those needed to work with a small one.

The Story So Far: so you're an overworked small-business operator. You need to save time, but you don't have the money to buy a lot of software. What to do?

The answer may be already on your desktop, as in Microsoft Word. Over the years Word has absorbed feature after feature, most hidden so far down the menus that we call them "The Caves of Word." Great features—and who has the time to find them? Book authors have (see Resources); and following their trail, so have we.

Last month (*www.microtimes.com/180/soho.html*) we looked at how to make macros. Then we put the macros on customized toolbars and menus. Finally we used all these tricks, together with Word's built-in table functions, to build a self-calculating invoice template. You put in the figures and press a button, and the invoice calculates itself.

This month we think about what happens when you suddenly have to build a large document. Someone has come to your office door and said, "Write me a report." Or they said, "Can we subcontract this manual to you?" Or they said, "I want someone to lay out this cookbook for me."

I have found that the skills needed to create a large document are more than, and different from, the skills needed to work with a small one. In a corporation there may be others with experience in large-document layout. In a small office, you are on your own. How do you learn to handle a big test project?

The following is hands-on advice. As with last month's column, it will be helpful to read this one with a copy of Microsoft Word 97 open and running.

### Outline!

Do you hear the voice of your third-grade teacher? Well, your teacher was right. Outlining can help make sense of a big document. It can also help you find your way around.

Choose "Outline" on the View menu, and you'll be offered a different way to see your text. You can create headings at many different depths, for ideas and sub-ideas. A new tool bar appears as well, which allows you to promote (the left arrow) or demote (the right arrow) any topic. If you want to insert body text (the stuff you say about a topic), you can do that by hitting the double arrow that faces to the right.

With the Outline view, you can choose how much of the outline structure you want to see. Want just an overview? Click "2" on the toolbar and you will see just the first and second layers of topics. Click "3" and you will see three layers, and so on. Click "All" and you will see all the topic lines, plus all the body text.

You can switch quickly among Outline, Normal, and Page-Layout views by using the View Menu, or by clicking on some truly tiny buttons at the lower left-hand corner of the document window. By switching among the views you can use the organizational advantages of the Outline view, and then jump to Page Layout to make sure everything looks right on the page.

### Group Revision

They said, "We want you to write it." They meant, "You write it, and we'll pick it apart line by line."

They said, "You have our complete confidence." They meant, "Eight people will have to sign-off on this document."

Don't go postal. If all the participants are using Word and have email, you can automate much of the revision.

Send each participant a copy of the document by email. Ask them to revise it however they see fit. They don't need to indicate the changes, just make them. Then have them send their revised document back to you by email.

Say your document is called "Manual." When Joe sends back his revision, rename it "Manual—Joe's Revision."

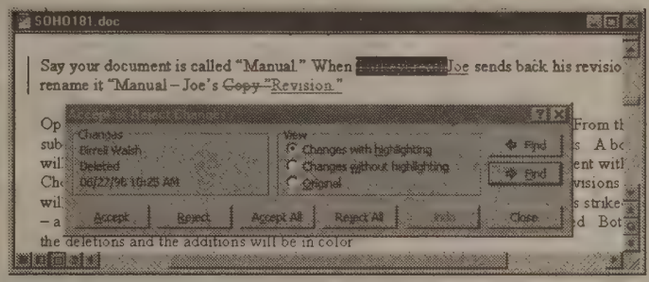
Open your copy of "Manual." Go to the Tools menu, then to Track Changes. From the submenu that opens to the right of Track Changes, choose Compare Documents. A box will open up and ask what document you want to compare your current document with. Choose "Manual—Joe's

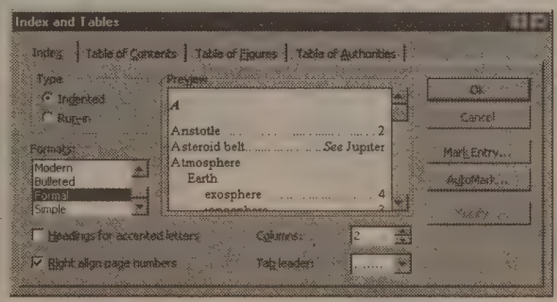
Revision" and hit return. In a moment, all of Joe's revisions will appear on your screen. All the deletions he suggests making will appear as strike-outs—a line will be drawn through the words. All of his additions will be underlined. Both the deletions and the additions will be in color.

Now you need to decide whether to incorporate or discard the proposed revisions. Go back to the Tools Menu, Track Changes, and choose Accept or Reject Changes. This will give you a dialog box that stays open while it steps you through the document. Each proposed revision will be highlighted, and you can accept or reject it as you see fit.

Another way to revise a document is to attach comments to parts of the text. Other reviewers can do this, or you can leave little notes to yourself of things you need to fix.

The nice thing about annotations is that they allow you to say something, without actually changing the document. You can attach an annotation to any part of the text by selecting the part you want to comment on, and choose Insert, then Comment. A box will open up to allow you to add your annotation. When you close the box, there will be a highlight on the text to indicate that there is a comment there. If you put your cursor over the highlighted text, the comment will appear in a small note, floating over the text.




**Editing and index tools. Some helpful features hidden in the caves of MS Word 97.**

When you have addressed the issue in the comment, you can remove it. Removal is easy—put your cursor over the text that is highlighted and right-click. A small menu will descend, and one choice will be "Delete comment." Choose that item on the menu and the comment will vanish.

## Index A Document

When all the people involved have signed-off on the document, someone will come along and suggest that it needs an index.

You do need an index for a large document, but creating one can be a bit of a pain. I know we are supposed to be talking about quick and easy explanations of Word 97 features here, but indexing is just not as easy as some other features.

Creating an index once you've marked the entries is not so bad. Word has a function for that on the Insert menu, called Index and Tables. The real problem is that the process of marking index entries is klutzy. You need to highlight a piece of

*continued on page 219*

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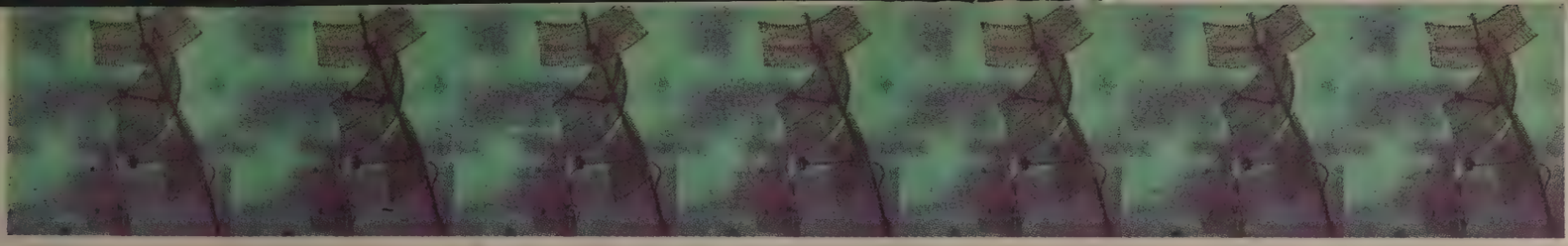
# Wireless T1

## Innetix Leads Attack On High Costs, Bandwidth Bottleneck

By Mary Eisenhart • Photos: Tustin Ellison



In 1982, while still in the Navy, Kenneth Jackson promoted a successful break dancing event in Aloha Stadium in Hawaii and promptly found himself bitten by the entrepreneurial bug. A few years later in the mid-'80s, as an engineering student at San Jose State University, he learned of an emerging opportunity and was quick to act.

"The FCC was having a lottery, issuing cellular licenses for all the major cities across the United States," he recalls. He immediately gathered friends and resources, and "we applied to some of these cellular markets and participated in the lottery." He applied for licenses in 80 cities, and was successful in acquiring an interest in 40 of them. For the next several years, he continued to apply for licenses in a variety of wireless markets—paging, cellphones, etc.—and to ultimately resell them to larger providers.

"Eventually," he says, "I sold my last major license to a company in Chicago. At that point I had the money to either retire or do something else." After a short period of well-deserved R&R, he found himself ready for his next business challenge.

Correctly figuring that the Internet market was about to explode, he produced a local cable TV program called Internet TV, which gave him "the opportunity to interview all the new movers and shakers in the Valley, trying to find out where this whole Internet thing was going.

"One of the common denominators that kept coming up in our conversation was bandwidth, being able to deliver content in a timely manner to people. So that's when I figured, 'Well, why not provide bandwidth wirelessly?'"

The result was San Jose-based Innetix (*www.innetix.com*), an Internet Access Service Provider that's been offering high-speed wireless Internet connections to its customers for a year and a half, using spread-spectrum technology with 1-watt radios operating chiefly in the no-license 2.4GHz frequency and delivering 1-megabit-per-second speed in each direction.

While the technology itself is not news (see, for example, *www.microtimes.com/metricom.html* and *www.microtimes.com/166/wirelessintro.html*), it has been met by a chorus of naysayers who doubt its robustness and scalability (see, for example, *www.microtimes.com/debate.html*). However, driven by the need for ever-greater bandwidth and frustrated by up to three-month waits for wired connections from the phone company (to say nothing of the monthly charges for those connections), customers found an attractive alternative in Innetix. Not only were they up and running within days (if not hours) of placing their order, Innetix's strategic location across the street from MAE-West and its co-location of servers at AboveNet (*www.microtimes.com/165/colocation.html*) offered direct backbone connectivity for lightning-fast performance.

Since opening its doors, Innetix has acquired an impressive client list in the South Bay, including software companies, the San Jose Convention and Visitors Bureau, the Fairmont Hotel, the San Jose Black Chamber of Commerce, and Joint Venture Silicon Valley.

Jackson, who has financed Innetix's growth from the proceeds of his previous ventures, says he'd ultimately like to take the company public. Meanwhile, he expresses some frustration that its ability to expand is constrained by the fact that the service provider business model doesn't attract investment from the financial community, even though the same investors pour capital into the equipment vendors from whom the ISPs buy.

"We've got people who pay for the service. We've got a customer base; it's growing; we get inquiries every day; we're still signing people up. So we're beyond the theoretical," he says.

"But before this whole wireless thing can take off," he continues, "the financial community has to step to the plate. Right now the financial community has focused on the equipment side of things. Well, you can have all the equipment in the world, but if you can't set up an office service for somebody and get paid for it, all that equipment you have really means nothing.

"The financial community is going to have to be open to service providers, providing those enabling technologies that are going to allow wireless to spread out."

* * * * *

**ISPs being pretty thick on the ground in San Jose, what brought you your first customers?**

The mayor of San Jose set up a number of software incubators downtown to spur business development. Initially, Pac Bell was providing T1 connections to a number of them at a reduced rate for a year—and after that year they were forced to start paying the normal rate. A T1 connection was going to cost them about $1500 a month, whereas we're able to provide the same bandwidth for half the cost. For the incubators, cost was a major consideration.

**How would you assess the reliability of the technology compared to wired lines?**

I'd say the reliability of the radios is quite good, just as reliable. When we have issues, it's not with the wireless; it's usually with the wired networks in the configuration. We really haven't had problems with the wireless side of it.

**You've got the advantage of extreme proximity to the Internet backbone, with MAE-West across the street and your co-location relationship with AboveNet 'round the corner. How does that work out in practical terms?**

What we've found in the marketplace is that customers are much more sophisticated in terms of their connection. When a company is signing up with an ISP, a lot of the time they're going to be running mission-critical applications, so they want you to explain a little bit about your connectivity to the Internet.

Because of that, I made the decision early to co-locate our network at AboveNet and at the actual MAE-West, because it allows multiple connections coming in, multiple pipes for big connections coming in from the Internet. It gives us multiple levels of redundancy, and we're one hop away from the Internet, which means that the end-user is going to receive their information that much quicker.

**You're delivering services to people a fair distance from your offices, and delivering over distance has always been one of the problems with wireless. How have you solved those problems?**

We've had to not listen to the sales hype and the marketing brochures put out by the radio manufacturers. We've had to go out and field-test the equipment and measure the throughput, and then, based upon the need, we provide that specific radio solution. We've actually had to go out and learn by trial and error what works and what doesn't. When we find something that works, we leave it in place and never move it.

**What's likely to affect the radio's ability to work or not?**

The distance. For example, if you try to push a radio beyond its listed distance requirements, you're going to have issues. Even if you put an amplifier on that radio, you could still have issues.

**I've heard from friends in the wireless business that part of the difficulty in making this technology work stems from the fact that the radios were often designed for use on corporate campuses and never intended to be deployed**

**in Metropolitan Area Networks. Is this the case here?**

Initially they were intended for corporate campuses, but then they started increasing the power and adding amps to it. As long as you stay within the distance limitations, you're okay. Once you start going beyond that, you start having problems.

The challenge has been, how do you configure in such a way that you're not going to violate those distance issues, while at the same time having a customer base within the general vicinity so you can operate a business and make money.

So, for example, the Breezecom (*www.breezecom.com*) radios, which go about three miles, allow us to hit pretty much everything within the downtown area and things close to downtown. When we go beyond three miles, we look at a different radio solution.

One of our prospective clients, Mission College in Santa Clara, requires a 3-meg-per-second connection. We had to shoot that from AboveNet to Mission College through the San Jose Airport. Even though we had radios that said they could do four megs, by the time we put it up, and measured it on the Mission College end, we were only receiving about 1.2.

**What is the problem the airport poses?**

The only thing we could think of was interference, but most of the frequency the airport uses is 8-900MHz. We couldn't understand whether it was the distance, the frequency, or what, causing the problem.

What we did was go to a different frequency, and got a higher-bandwidth radio. The radio we have now will deliver six megs, so we'll meet their criteria.

**What's the power of these radios?**

One watt.

**And how long a distance can you go between repeaters?**

It depends upon the radio. Some of them will go as far as 15 miles, but for us, 15 miles is good enough, because we primarily serve customers within a 10–15 mile radius. That's where the majority of the business is, here in San Jose.

We have a number of customers in the Fremont and Milpitas area—we started with about 10 customers in Fremont. We needed a backbone connection going up to Mt. Allison to be able to serve those customers down in Fremont. In that situation we'd put a higher-bandwidth radio, like a 6-meg radio, as the backbone. It would feed the mountaintop, then from the mountaintop, we'd slice that up and provide bandwidth at some measured rate to the end-user.

Mt. Allison allows us to go into Fremont, Milpitas, the whole Newark area, all the way up in there. Our radios on Mt. Umunhum allow us to service Campbell, Saratoga, Cupertino, Sunnyvale, and Palo Alto.

## Wireless: Coming To An ISP Near You?

For customers fortunate enough to be located in areas where fast wireless Internet access is being deployed, it offers an attractive alternative to the hidden costs of traditional connectivity.

Says Gary Keleman of Clifford Electronics in Chatsworth (*www.clifford.com*): "Recently I received an advertisement from an Internet service provider (ISP) for a full T1 connection to the Internet for only $595. What this ISP didn't advertise is the fact that it is necessary to have a local connection (via Pacific Bell) to the ISP. Only after this is done can you have access to the ISP's T1 connection. Therefore, the hard-to-believe price of $595 is now a more believable $1100."

When Southern California ISP PacificNet (*www.pacificnet.net*) asked him to participate in the beta test of its new InterWireless service, he says, "I jumped at the offer."

He explains: "They promised a full T1 (1.54Mb) connection at a cost less than that of the 384K circuit we had at the time. I was paying $600 per month for the 384K circuit to PacificNet (our ISP) and approximately $500 to Pacific Bell for the local loop to PacificNet, making the total cost around $1100." InterWireless rates range from $175 per month for 128K to $900 for full T1.

Keleman adds that while there were some concerns about the technology's reliability, experience has so far proved them unfounded. "With a wireless connection, the local loop is severed. The connection to the ISP (InterWireless) is direct, thus reducing the chance of downtime should the local carrier have problems. The added bonus of zero downtime since making the switch to wireless only adds to my belief that I made the right decision."

Cost, reliability, and the lengthening wait for lines from the local telco are driving a number of California ISPs to add wireless connectivity to their service offerings. Among them:

### Northern California

**CKNS.net**

*www.ckns.net*

ISP CKNS will soon be adding wireless connectivity to its service offering for customers in greater Silicon Valley.

**Innetix** (see main story)

*www.innetix.com*

Service area: greater Silicon Valley; Oakland and San Francisco in progress.

**Wavepath**

*www.wavepath.com*

Wavepath expects to launch its initial service offering in the South Bay/San Jose area sometime in July, with full Bay Area coverage later in the year.

### Southern California

**Global Pacific Internet**

*www.globalpac.com*

Global Pacific currently offers high-speed wireless connectivity from 384K to 3+mbps to customers in Orange County. As part of its expansion effort into Los Angeles County, says marketing director Lou Valliere, GlobalPac will also offer customers temporary wired T1s at the lower wireless rate until there are enough customers in the area to make installing a transmitter in the area feasible.

**InterWireless**

*www.interwireless.com*

InterWireless offers wireless connectivity up to 15+mbps to business customers in the greater Los Angeles area, from Oxnard to north Orange County.

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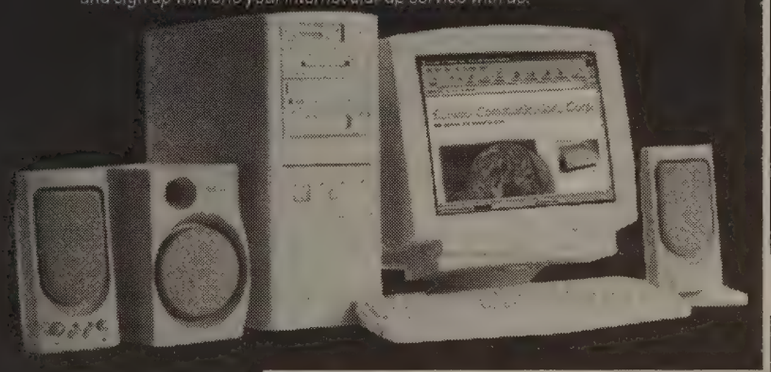

## Network products

| Network Hubs (generic) | | Network Card (generic) | | Network Routers(Cisco) | |
|---|---|---|---|---|---|
| 5 port | $39 | Ne2000 (ISA) | $19 | 761 Enet/ISDN (IP only) | $499 |
| 9 port | $59 | Ne2000 (PCI) | $29 | 762 Enet/ISDN (IP only) | $569 |
| 18 port | $139 | **Network Card (3COM)** | | 765 Enet/ISDN | $669 |
| **Network Hubs (3COM)** | | 3C509B (ISA) | $49 | 1600 IP/IPX/appletalk | $699 |
| Office connect 8 port | $135 | 3C905TX (PCI) | $75 | 1601 Serial Moduler Router | $1299 |
| Office connect 16 port | $235 | **Network Card (Intel)** | | 1602 Ethernet 56KDSU Moduler Router | $1399 |
| **Network Hubs (Intel)** | | Etherexpress Pro10 | $59 | 2501 Ethernet Dual Serial Moduler Router | $1889 |
| Inbusiness 5 port (10BT) | $69 | Etherexpress Pro10/100 | $75 | 2503 Dual Serial Moduler Router ISDN/BRI | $2499 |
| Inbusiness 8 port (10BT) | $99 | **Internet Hub (Intel)** | | | |
| Inbusiness 4 port (10/100) | $199 | Intel Inbusiness Internet Station (Internet sharing hub) | $399 | | |
| Inbusiness 8 port (10/100) | $375 | | | | |

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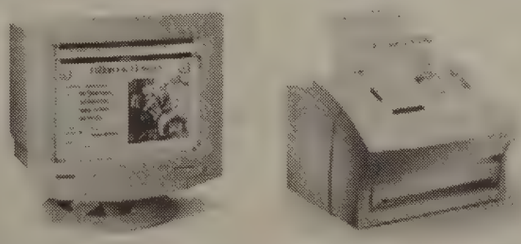

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# Wireless T1

**You're starting to offer service in Oakland. How is that being done?**

We've run a DS3, or a big pipe, going up to Oakland. We've secured one of the tall buildings in downtown Oakland, and now we're in the process of actually bringing the bandwidth up, wiring it up to the roof so we can beam from the rooftop. Already we've gotten requests from Emeryville and a lot of places in Oakland where they can't receive wired T1 service.

We would like to offer entire-Bay-Area coverage. With our existing infrastructure, anybody who's an ISP end-user all the way up to a T1 user is a potential customer for us, even with other technologies like XDSL and ADSL on the horizon. Just the other day I got an email from somebody about ADSL, saying that it only operates within three miles outside of their Central Office, so they still need a solution.

**If you're in the wrong place, you just can't get it.**

Exactly. Even though there's cable modem and ADSL, and that's fine, there are still a lot of holes in the infrastructure. So there's going to be room for wireless.

The way it's evolving now is that a lot of ISPs have contacted us about partnering opportunities. What we're trying to look at now is how we can bring other ISPs under this umbrella—how do we franchise it? How do we allow other ISPs to add this as part of their value-added package, and how to package this all together? Right now I'm talking to a number of ISPs about that very concept.

**People have been working with this technology for some time, but why is it suddenly ready for prime time?**

The reason I believe it's ready for prime time is that, especially for us in the downtown area, it's a solution that's quick. They can call us up, we put an antenna in their window, and they're up within a day. They're paying half the cost, they don't have to get in that Pac Bell queue and wait months and go through that whole process.

If you're in a 10-15 person office and everybody's accessing the Internet, you'll truly be impressed by the speed versus your regular dialup connection. These are people who are used to surfing the Internet, tired of slow speeds—they want to get on, get the information, and get off, and they're looking for much faster access.

So I think the big issues are the time savings of getting them up, the cost savings—and the fact that it works! ◆

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## Wired Vs. Wireless—Comparative Cost Analysis

*(Source: Innetix—other providers' rates vary, but comparable savings prevail)*

| | Wired | Wireless |
|---|---|---|
| **Installation** | | |
| Phone company | $1267 | — |
| ISP | $2500 | $2500 |
| CSU/DSU | $500 | — |
| Router | $1200 | — |
| Radio | — | $795 |
| Antenna | — | $395 |
| **Total Installation Cost** | **$5467** | **$3690** |
| **Monthly Charge** | | |
| Phone company | $480 | — |
| ISP | $900 | $850 |
| **Total Monthly Cost** | **$1380** | **$850** |
| **Time to Install** | **4–8 weeks** | **5–10 days** |

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# Bluetooth: The Missing Link?

## The Marriage Of Communications And Computing | By Andrew M. Seybold

Imagine that you are in a meeting with your notebook computer open in front of you. Suddenly, the cursor begins to blink and a new email message is displayed on the screen. Your computer isn't plugged into anything, your cellular phone is in your briefcase under the table, but you are receiving email over the wireless network. How is this possible?

Your notebook is communicating with your cell phone, which in turn is communicating with the wireless network through a revolutionary new radio chip developed through a collaboration of the computing and communications industries—code name "Bluetooth."

### Setting The Stage

Over the past ten years or so, the communications and computer industries have developed new technology products that enable mobile workers to be more productive. As a result, our work force is able to spend more working hours in the field.

The communications industry has given us pagers that have evolved from tone-only to belt-worn devices that can receive and display text messages of up to several hundred characters. Mobile phones have evolved from large vehicle-mounted units to today's handheld phones weighing only a few ounces. Mobile phone service has grown from coverage along major highways to coverage virtually everywhere we go.

> Why not build a single, common radio into every mobile computer?

Meanwhile, the computer industry has provided portable computers that have evolved from luggables to palmtops. Today, you can carry computing power in your briefcase that is comparable to yesterday's corporate-wide data processing capabilities. Today's mobile workers have a wide range of portable computers to choose from—full-function notebook computers with several hours of battery life, smaller and lighter full-function notebooks, still lighter mobile computers, handheld PCs, and palmtop PCs with the ability to operate for fifty or more hours on a set of batteries.

### The Past Few Years

During this same time, first facsimile, and now electronic mail have taken us beyond voice communications. Today's mobile workers number some 45 million in the United States alone, and they need more than a cellular phone and a mobile computer. They need the ability to access their own email, connect to their corporate information resources, and perhaps to send and receive faxes.

### The Merger

The computing and communications industries have both been building smaller, more powerful devices for mobile workers and consumers. The next logical step was to work together to provide wireless access to computing devices. For five or six years, the industries have been doing just that—working together toward providing customers with the same level of access to their computing data as they have to people via their mobile voice phones.

Wireless networks that were deployed for voice traffic have been expanded in scope to serve as wireless data pipes as well. Further, in more than a dozen countries including the United States, data-only wireless networks have been built and put into service.

However, using a wireless network for data today is much more complex than for voice. A voice wireless phone is easy to understand and use. You pick it up and dial a number. The phone at the other end rings, someone answers, and you talk. It is almost exactly like using a wired phone, and you can dial any phone number in the world.

Early wireless voice systems are analog networks, and using an analog wireless network for data is difficult at best. You must purchase a cable and wireless modem to connect your phone to the computer, and you must use a data speed that is considerably slower than wired modem access. Even then, the connection is susceptible to interference or being dropped altogether.

### Enter Digital

All of the new wireless voice systems being implemented today are based on digital technologies, as are data-only networks. Meanwhile, most analog wireless networks are being upgraded to digital. Digital networks are better suited to data, and most are capable of providing for both voice and data. Even so, it is still necessary to purchase a wireless network adapter or modem as well as proprietary cables and connectors for the computer in order to use these new networks for wireless data.

Wireless network adapters can be connected to a cellular phone with a cable, or they can be complete wireless communications devices, and they are designed to fit into a PC Card slot of a mobile computer. In many cases, it is also necessary to install special software to enable the computer and the communications device to communicate with each other.

### Connections

Once the mobile computer is connected to the wireless network via the network card or modem, users must be able to access the information they want and need over the network. While the demand for such a connection is high, the actual number of users is still small. Thus, corporate information managers have not yet addressed the issue of making it easy for their own corporation's employees to connect back into their corporate data resources wirelessly.

Wireless voice communications are easy to procure and use—there are millions of wireless phones in use worldwide. On the other hand, wireless data communications are still difficult to implement, and today's users number only in the thousands. For these reasons, communications and computing companies have both slowed in their efforts to merge the two technologies.

### Renewed Interest

With the recent success of palmtop and handheld computers, as well as the emergence of a new generation of still smaller and lighter mobile computers, there is renewed interest within the computing community for wireless data access. Further, as more wireless networks come online, network providers are finding it necessary to offer services beyond voice to maintain a competitive edge.

### Problems Remain

Even with this renewed interest, and technical advances made by both industries, implementing

*continued on page 138*

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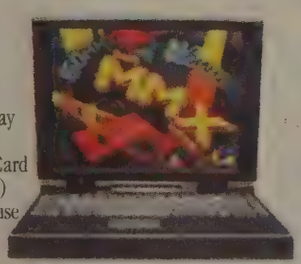

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- Windows 98 or 95 plus Super Bundle
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|---|---|
| Intel Pentium 166 MMX | $749 |
| Intel Pentium 200 MMX | $769 |
| Intel Pentium 233 MMX | $799 |
| AMD K6-233 MMX | $749 |
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- Sound Blaster PCI Wavetable Sound Card
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- 1 Year Parts & Labor Warranty
- 2 Year On-Site Service Available for only $99

*Monitor Sold Separately (see below)*

| | |
|---|---|
| Intel Pentium 166 MMX | $869 |
| Intel Pentium 200 MMX | $899 |
| Intel Pentium 233 MMX | $919 |
| AMD K6-233 MMX | $869 |
| AMD K6-266 MMX | $919 |

## SUPER SOFTWARE BUNDLE

Compton's Complete Reference Collection including Compton's Encyclopedia · Compton's World Atlas · Webster's New World Dictionary · Compton's Internet Directory · Handbook for Writers · Geographicsal Dictionary · The World Almanac & Book of Facts · World History · Complete Home Medical Guide · Webster's New World Thesaurus **Online (fax modem req'd):** Microsoft Internet Explorer · Microsoft Internet Tools · America Online

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**ADD ONLY $29!**

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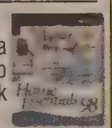
Word 97 · Works 4.5 · Encarta 98 · Greetings Workshop Money 98 · Entertainment Pak



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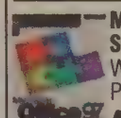

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# Hyper² LX Pentium II Systems

Envision's Hyper² LX Pentium II systems feature Intel's Pentium II processors bundled with Intel's 440LX AGPset chipset to give you out of this world performance. The new 440LX chipset is the first Pentium II chipset to offer support for Intel's MMX technology, super-fast 10ns SDRAM memory, and Ultra ATA IDE hard drives/controllers with up to 33MB/s transfer rates. Add the new Advanced Graphics Port (AGP) providing up to 4 times more throughput than standard PCI graphics cards and you have a really fast system. But that's not all because Hyper² LX systems also come with 56K fax modems so you can surf the Net faster, Sound Blaster Awe64 wavetable sound cards with amazingly realistic sound, dual USB ports and 24X to 32X CD-ROM drives. Best of all, you get all this speed without hurting your wallet. Envision's Hyper² LX Pentium II systems - power without the price.

## Hyper²LX Pro
64MB · 6.4GB HD · 32X CD · SB PCI

**Starting from $999**

*or finance it from $38/month*

- 440LX Pentium II Motherboard/512K Cache
- 64MB SDRAM Memory, up to 384MB
- 6.4GB Ultra ATA BF IDE HardDrive (33MB/s)
- Upgrade to 8.0GB Ultra ATA HD - add $40
- AGP2X Intel i740 3D/8MB Graphics Card
- Dual Universal Serial Bus Ports
- 2 Hi-Speed Serial/1 Parallel Ports
- ATX Medium Tower/230W PS
- 104-key Win95 Keyboard & Mouse
- 32X IDE CD-ROM (4800KB/s)
- Sound Blaster AudioPCI Wavetable Sound
- 180 Watt Power Amplified Stereo Speakers
- 56K v.90 Internal Fax Modem/Voice
- Windows 98 or 95 plus Super Bundle
- 1 Year Parts & Labor Warranty
- 2 Year On-Site Service Available for only $99

*Monitor Sold Separately (see below)*

| | |
|---|---|
| Pentium II 233 MMX | $999 |
| Pentium II 266 MMX | $1049 |
| Pentium II 300 MMX | $1149 |
| Pentium II 333 MMX | $1299 |
| Dual Pentium II 300 MMX | $1799 |
| Dual Pentium II 333 MMX | $2199 |

## Hyper²LX Dream
64MB · 8.0GB HD · 32X CD · SB PCI

**Starting from $1299**

*or finance it from $49/month*

- 440LX Pentium II Motherboard/512K Cache
- 64MB SDRAM Memory, up to 384MB
- 8.0GB Ultra ATA BF IDE HardDrive (33MB/s)
- Upgrade to 12GB Ultra ATA BF HD-add $110
- AGP2X ATI All-in-Wonder Pro/4MB Graphics
- 2D/3D Accelerator · TV Tuner · Video Capture
- Dual USB/2 Hi-Speed Serial/1 Parallel Ports
- ATX Medium Tower/230W PS
- 104-key Win95 Keyboard & Mouse
- 32X IDE CD-ROM (4800KB/s)
- Sound Blaster AudioPCI Wavetable Sound
- 350 Watt Subwoofer Speaker System
- 56K v.90 Internal Fax Modem/Voice
- Windows 98 or 95 plus Super Bundle
- 1 Year Parts & Labor Warranty
- 2 Year On-Site Service Available for only $99

*Monitor Sold Separately (see below)*

| | |
|---|---|
| Pentium II 233 MMX | $1299 |
| Pentium II 266 MMX | $1349 |
| Pentium II 300 MMX | $1449 |
| Pentium II 333 MMX | $1599 |
| Dual Pentium II 300 MMX | $2099 |
| Dual Pentium II 333 MMX | $2499 |

## Hyper²LX SCSI
64MB · 4.3GB SCSI-3 · 32X CD · SB PCI

**Starting from $1299**

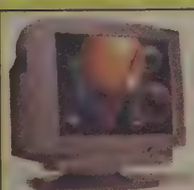
*or finance it from $49/month*

- 440LX Pentium II Motherboard/512K Cache
- 64MB SDRAM Memory, up to 384MB
- 4.3GB Ultra Wide SCSI-3 HD (8ms 40MB/s)
- Upgrade to 9.1GB Ultra Wide HD - add $350
- Built-in Adaptec Ultra Wide SCSI-3 Controller
- AGP2X Intel i740 3D/8MB Graphics Card
- Dual USB/2 Hi-Speed Serial/1 Parallel Ports
- ATX Medium Tower/230W PS
- 104-key Win95 Keyboard & Mouse
- 32X SCSI CD-ROM (4800KB/s)
- Sound Blaster AudioPCI Wavetable Sound
- 350 Watt Subwoofer Speaker System
- 56K v.90 Internal Fax Modem/Voice
- Windows 98 or 95 plus Super Bundle
- 1 Year Parts & Labor Warranty
- 2 Year On-Site Service Available for only $99

*Monitor Sold Separately (see below)*

| | |
|---|---|
| Pentium II 233 MMX | $1299 |
| Pentium II 266 MMX | $1349 |
| Pentium II 300 MMX | $1449 |
| Pentium II 333 MMX | $1599 |
| Dual Pentium II 300 MMX | $2099 |
| Dual Pentium II 333 MMX | $2499 |

## MONITOR OPTIONS



| 14" | 15" | 15" | 17" | 17" | 17" | 17" | 17" | 19" | 21" |
|---|---|---|---|---|---|---|---|---|---|
| Techmedia 14 | VistaPoint 15 | Cybervision C50 | VistaPoint 17 | Cybervision C70 | Panasonic S70 | Cybervision C72 | Cybervision ds86 | Mag DJ800 | CyberVision C112 |
| 1024x768/0.28 dp | 1024x768/0.28 dp | 1024x768/0.28dp | 1280x1024/0.28 dp | 1280x1024/0.27 dp | 1280x1024/0.27 dp | 1280x1024/0.25 dp | 1600x1200/0.25 dp | 1600x1200/0.26 dp | 1600x1200/0.25 dp |
| $119 | $149 | $169 | $249 | $299 | $329 | $349 | $429 | $549 | $899 |

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Fax: 949.833.3996

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# bluetooth

*continued from page 134*

wireless data remains a complex and expensive proposition. Because there are so many wide-area networks that can be used for wireless data, and there are so many digital standards, computer vendors have been frustrated in their efforts to build wireless communications solutions into their mobile computers.

As a result, communications companies have had to find ways to enable their communications devices in the computing world. They offer products that fit directly into a mobile computer, some that connect to the computer via a cable and a PC Card and, soon, there will be devices that provide for an infrared communications link.

None of these are ideal solutions—each comes with its own set of problems. For example, each mobile phone vendor uses a different type of connector on its phone, thus a wide variety of interface cables must be provided. Each network operates on a different set of radio frequencies and may use a different digital standard; thus every mobile computer cannot be engineered to work with every device. And computers generate radio noise—interference can be experienced by either device when a wireless adapter is inserted into a computer, or even when they are connected via a cable.

The infrared solution has turned out to be problematical because it is designed to be used over short distances and has a small "target" area. The two devices must be positioned so that their IR ports can "talk" to each other. Some devices have IR ports on the back, some on the side, and so on. Moreover, the IR solution does not permit one-handed operation of the computer and communications device. Since one-handed operation is an important feature of smaller handheld and palmtop computing devices, infrared is also an inconvenient solution.

The communications industry has been trying to find a solution that will enable mobile computing devices to connect to their wireless networks. Computer companies have been trying to find a way to connect their devices to wireless networks. While they share the same goal, each industry has been focusing on its own technology without adequate consideration of the requirements of the other.

Eventually, several companies from both industries decided that they needed to work together to find a common solution. They knew that there was a demand to merge mobile computing with mobile communications, and they understood the problems. They believed that working together they could find a solution.

## The Result

The result of this collaboration will be a technology code-named "Bluetooth." I expect Bluetooth to address all of the issues raised above, and it will provide a common solution for both industries. The model for Bluetooth is simple, and there is genius in its simplicity.

Rather than trying to design computers so they will work with any wireless interface card or modem on any frequency, using any one of a number of digital technologies, why not build a single, common radio into every mobile computer?

The computer and radio combination could then be optimized to minimize interference—a task made easier for computer engineers with only one radio. With a single-radio solution, computer vendors will no longer be faced with having to make a network choice or supporting multiple networks.

The Bluetooth communications device is a small, low-powered radio in a chip that will "talk" to other Bluetooth-enabled products, eliminating the need for cables or infrared beams to connect portable computers, cellular phones, printers, fax machines, etc. It will be possible to connect enabled devices on a one-to-one or one-to-many basis.

Since the chip supports both voice and data communications, applications will range from something as simple as replacing the cable between a mobile computer and cellular phone, to more complex connections involving multiple computers, and extending into hands-free voice communications for wireless phones in vehicles.

## Everybody Wins

Bluetooth appears to be a win for the computer industry. Most computer manufacturers have wanted to enable wireless communications, but have been unable to determine which wide-area networks to support. The Bluetooth solution will eliminate the need for a wide-area network decision. This can be left to the makers of phones and modems and other wide-area network devices. As an added bonus, the radio, which is inexpensive to build in, can be used to connect any two or more devices that are equipped with the radio module.

Computer manufacturers have known for some time that wireless communications will be important for mobile computers. The Bluetooth solution will provide a short-range *ad hoc* network, enabling users to send and receive email without a phone and synchronize their calendar and phone book automatically whenever the two devices detect each other's presence.

Bluetooth also appears to be a win for the communications industry. Communications companies will no longer have to build external cables and PC Cards to enable their wireless phones and network cards to interface to computers. A Bluetooth module built into the phone or wireless network connection points will enable it to send and receive information to and from any computer so equipped.

Since Bluetooth is capable of short-range voice communications as well, it will also be used as a hands-free voice interface for cellular phones, a speaker-phone link, and a link between the phone and other electronics in an automobile. Bluetooth technology will enable multiple devices to communicate with each other using a common set of standards when they are within range.

**Today's mobile workers number some 45 million in the United States alone.**

## Built-In Devices

The "compelling" reasons for incorporating Bluetooth are to wirelessly connect mobile computers to cellular phones, and to establish small workgroups quickly and easily. As the number of Bluetooth-equipped devices grows, so will their uses. Printers, fax machines, LANs, and more will be able to communicate with each other.

On the communications side, cellular phones, two-way pagers, wireless data-only terminals, and most other two-way wireless-capable devices will be Bluetooth-equipped. Bluetooth will provide the "glue" for the merger of wireless and computers. And it will provide some great new voice options as well.

## Add-In And Add-On

While I expect to see many new computer products that include radio modules to enter the marketplace, I also expect to see many computer companies build add-in and add-on modules to enable existing wireless and computing combina-

*continued on page 143*

# ENVISION Motherboards & CPU

## Pentium K6/Cyrix

| | |
|---|---|
| Chipset/Form/BIOS | VX Pro/AT/Award |
| #RAM/Max RAM | 2DIMM/4SIMM/256M |
| Controllers | UATA IDE HD/FD |
| On-board I/O | 2S/P/G/PS-2 |
| Slots AGP/PCI/ISA | 0/4/3 |
| Bus Clock | 66/75MHz |
| Other Feature(s) | |
| **MOTHERBOARD & CPU COMBO PRICES** | |
| Pentium 166/200/233 | $159/$179/$189 |
| AMD K6-233/266/300 | $149/$179/---- |
| Cyrix 686mx-200/233 | $129/$139 |

| | |
|---|---|
| Chipset/Form/BIOS | 430TX/AT/Award |
| #RAM/Max RAM | 2DIMM/4SIMM/256M |
| Controllers | UATA IDE HD/FD |
| On-board I/O | 2S/P/G/PS-2 |
| Slots AGP/PCI/ISA | 0/4/3 |
| Bus Clock | 66/75MHz |
| Other Feature(s) | |
| **MOTHERBOARD & CPU COMBO PRICES** | |
| Pentium 166/200/233 | $169/$189/$199 |
| AMD K6-233/266/300 | $159/$189/$229 |
| Cyrix 686mx-200/233 | $139/$149/ |

| | |
|---|---|
| Chipset/Form/BIOS | 430TX/AT/Award |
| #RAM/Max RAM | 2DIMM/2SIMM/256M |
| Controllers | UATA IDE HD/FD |
| On-board I/O | 2S/P/G/PS-2 |
| Slots AGP/PCI/ISA | 0/4/4 |
| Bus Clock | 66/75/83MHz |
| Other Feature(s) | Jumperless BIOS |
| **MOTHERBOARD & CPU COMBO PRICES** | |
| Pentium 166/200/233 | $179/$199/$209 |
| AMD K6-233/266/300 | $169/$199/$239 |
| Cyrix 686mx-200/233 | $179/$209/$249 |

| | |
|---|---|
| Chipset/Form/BIOS | 430TX/AT/Award |
| #RAM/Max RAM | 2DIMM/4SIMM/256M |
| Controllers | UATA IDE HD/FD |
| On-board I/O | 2S/P/G/PS-2 |
| Slots AGP/PCI/ISA | 0/5/4 |
| Bus Clock | 66/75/83MHz |
| Other Feature(s) | |
| **MOTHERBOARD & CPU COMBO PRICES** | |
| Pentium 166/200/233 | $189/$209/$219 |
| AMD K6-233/266/300 | $179/$209/$249 |
| Cyrix 686mx-200/233 | $149/$159 |

| | |
|---|---|
| Chipset/Form/BIOS | 430TX/AT/Award |
| #RAM/Max RAM | 2DIMM/4SIMM/256M |
| Controllers | UATA IDE HD/FD- |
| On-board I/O | 2S/P/G/2USB/PS-2 |
| Slots AGP/PCI/ISA | 0/4/3 |
| Bus Clock | 66/75/83MHz |
| Other Feature(s) | Jumperless BIOS |
| **MOTHERBOARD & CPU COMBO PRICES** | |
| Pentium 166/200/233 | $179/$209/$219 |
| AMD K6-233/266/300 | $179/$209/$249 |
| Cyrix 686mx-200/233 | $159/$169 |

| | |
|---|---|
| Chipset/Form/BIOS | 430TX/ATX/Award |
| #RAM/Max RAM | 2DIMM/4SIMM/256M |
| Controllers | UATA IDE HD/FD |
| On-board I/O | 2S/P/G/2USB/PS-2 |
| Slots AGP/PCI/ISA | 0/4/4 |
| Bus Clock | 66/75/83MHz |
| Other Feature(s) | Jumperless BIOS |
| **MOTHERBOARD & CPU COMBO PRICES** | |
| Pentium 166/200/233 | $199/$219/$229 |
| AMD K6-233/266/300 | $189/$219/$259 |
| Cyrix 686mx-200/233 | $169/$179 |

| | |
|---|---|
| Chipset/Form/BIOS | MVP3/AT/Award |
| #RAM/Max RAM | 2DIMM/2SIMM/256M |
| Controllers | UATA IDE HD/FD |
| On-board I/O | 2S/P/G/PS-2 |
| Slots AGP/PCI/ISA | 1/3/3 |
| Bus Clock | 66/75/83/100MHz |
| Other Feature(s) | Supports K6-2 CPU |
| **MOTHERBOARD & CPU COMBO PRICES** | |
| Pentium 166/200/233 | $199/$219/$229 |
| AMD K6-233/266/300 | $189/$219/$259 |
| Cyrix 686mx-200/233 | AMD K6-2 300: $299 |

| | |
|---|---|
| Chipset/Form/BIOS | MVP3/ATX/Award |
| #RAM/Max RAM | 2DIMM/2SIMM/256M |
| Controllers | UATA IDE HD/FD |
| On-board I/O | 2S/P/G/PS-2 |
| Slots AGP/PCI/ISA | 1/3/3 |
| Bus Clock | 66/75/83/100MHz |
| Other Feature(s) | Supports AMD K6-2 |
| | |
| | $219/$239/$249 |
| | $209/$239/$289 |
| | AMD K6-2 300: $319 |

| | |
|---|---|
| Chipset/Form/BIOS | 430TX/AT/Award |
| #RAM/Max RAM | 3DIMM/384M |
| Controllers | UATA IDE HD/FD |
| On-board I/O | 2S/P/G/PS-2 |
| Slots AGP/PCI/ISA | 0/4/3 |
| Bus Clock | 66/75MHz |
| Other Feature(s) | LDCM |
| | |
| | $219/$239/$249 |
| | $209/$239/$289 |
| | $189/$199 |

| | |
|---|---|
| Chipset/Form/BIOS | 430TX/AT/Award |
| #RAM/Max RAM | 2DIMM/4SIMM/256M |
| Controllers | UATA IDE HD/FD |
| On-board I/O | 2S/P/G/PS-2 |
| Slots AGP/PCI/ISA | 0/4/3 |
| Bus Clock | 66/75MHz |
| Other Feature(s) | LDCM |
| | |
| | $219/$239/$249 |
| | $209/$239/$289 |
| | $189/$199 |

| | |
|---|---|
| Chipset/Form/BIOS | 430TX/ATX/Award |
| #RAM/Max RAM | 3DIMM/384M |
| Controllers | UATA IDE HD/FD |
| On-board I/O | 2S/P/G/PS-2 |
| Slots AGP/PCI/ISA | 0/4/4 |
| Bus Clock | 66/75MHz |
| Other Feature(s) | LDCM |
| **MOTHERBOARD & CPU COMBO PRICES** | |
| Pentium 166/200/233 | $229/$249/$259 |
| AMD K6-233/266/300 | $219/$249/$299 |
| Cyrix 686mx-200/233 | $199/$209 |

| | |
|---|---|
| Chipset/Form/BIOS | 430TX/ATX/Award |
| #RAM/Max RAM | 2DIMM/4SIMM/256M |
| Controllers | UATA IDE HD/FD |
| On-board I/O | 2S/P/G/PS-2 |
| Slots AGP/PCI/ISA | 0/4/4 |
| Bus Clock | 66/75MHz |
| Other Feature(s) | LDCM |
| **MOTHERBOARD & CPU COMBO PRICES** | |
| Pentium 166/200/233 | $229/$249/$259 |
| AMD K6-233/266/300 | $219/$249/$299 |
| Cyrix 686mx-200/233 | $199/$209 |

| | |
|---|---|
| Chipset/Form/BIOS | 430HX/AT/Award |
| #RAM/Max RAM | 8SIMM/512M |
| Controllers | EIDE HD/FD |
| On-board I/O | 2S/P/G/PS-2 |
| Slots AGP/PCI/ISA | 0/4/5 |
| Bus Clock | 66MHz |
| Other Feature(s) | Dual Pentium CPU |
| **MOTHERBOARD & CPU COMBO PRICES** | |
| Pentium 166/200/233 | $279/$299/$309 |
| AMD K6-233/266/300 | $269/$299/---- |
| Cyrix 686mx-200/233 | $249/$259 |

## Pentium II Intel 440LX

| | |
|---|---|
| Chipset/Form/BIOS | 440LX/AT/Award |
| #RAM/Max RAM | 3DIMM/384M |
| Controllers | UATA IDE HD/FD |
| On-board I/O | 2S/P/G/PS-2 |
| Slots AGP/PCI/ISA | 1/3/2 |
| Bus Clock | 66MHz |
| Other Feature(s) | |
| | |
| Celeron 266/PII 233 | $249/$299 |
| Pentium II 266/300/333 | $329/$429/$549 |

| | |
|---|---|
| Chipset/Form/BIOS | 440LX/ATX/Award |
| #RAM/Max RAM | 3DIMM/384M |
| Controllers | UATA IDE HD/FD |
| On-board I/O | 2S/P/G/2USB/PS-2 |
| Slots AGP/PCI/ISA | 1/4/3 |
| Bus Clock | 66MHz |
| Other Feature(s) | Jumperless BIOS |
| | |
| | $249/$299 |
| | $329/$429/$549 |

| | |
|---|---|
| Chipset/Form/BIOS | 440LX/ATX/Award |
| #RAM/Max RAM | 3DIMM/384M |
| Controllers | UATA IDE HD/FD |
| On-board I/O | 2S/P/G/2USB/PS-2 |
| Slots AGP/PCI/ISA | 1/4/3 |
| Bus Clock | 66MHz |
| Other Feature(s) | Jumperless BIOS |
| | |
| | $249/$299 |
| | $329/$429/$549 |

| | |
|---|---|
| Chipset/Form/BIOS | 440LX/ATX/Award |
| #RAM/Max RAM | 3DIMM/384M |
| Controllers | UATA IDE HD/FD |
| On-board I/O | 2S/P/G/2USB/PS-2 |
| Slots AGP/PCI/ISA | 1/4/2 |
| Bus Clock | 66/75/83MHz |
| Other Feature(s) | Jumperless BIOS |
| | |
| | $269/$319 |
| | $349/$449/$569 |

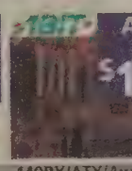
| | |
|---|---|
| Chipset/Form/BIOS | 440LX/ATX/Award |
| #RAM/Max RAM | 3DIMM/384MB |
| Controllers | UATA IDE HD/FD |
| On-board I/O | 2S/P/G/2USB/PS-2 |
| Slots AGP/PCI/ISA | 1/4/2 |
| Bus Clock | 66MHz |
| Other Feature(s) | |
| | |
| | $279/$329 |
| | $359/$459/$579 |

| | |
|---|---|
| Chipset/Form/BIOS | 440LX/ATX/Award |
| #RAM/Max RAM | 3DIMM/384MB |
| Controllers | SCSI3/UATA IDE HD/FD |
| On-board I/O | 2S/P/G/2USB/PS-2 |
| Slots AGP/PCI/ISA | 1/4/2 |
| Bus Clock | 66MHz |
| Other Feature(s) | Adaptec Wide SCSI |
| | |
| | $379/$429 |
| | $459/$559/$679 |

## Pentium II Intel 440BX

| | |
|---|---|
| Chipset/Form/BIOS | 440BX/ATX/Award |
| #RAM/Max RAM | 3PC100 DIMM/384M |
| Controllers | UATA IDE HD/FD |
| On-board I/O | 2S/P/G/2USB/PS-2 |
| Slots AGP/PCI/ISA | 1/4/3 |
| Bus Clock | 66/100MHz |
| Other Feature(s) | Jumperless BIOS |
| | |
| Pentium II 233/266/300 | $319/$349/$449 |
| Pentium II 333/350/400 | $569/$669/$869 |

| | |
|---|---|
| Chipset/Form/BIOS | 440BX/ATX/Award |
| #RAM/Max RAM | 4PC100 DIMM/512M |
| Controllers | UATA IDE HD/FD |
| On-board I/O | 2S/P/G/2USB/PS-2 |
| Slots AGP/PCI/ISA | 1/4/3 |
| Bus Clock | 66/100/112/125MHz |
| Other Feature(s) | Jumperless BIOS |
| | |
| | $349/$379/$479 |
| | $599/$699/$899 |




| | |
|---|---|
| Chipset/Form/BIOS | 440BX/ATX/Award |
| #RAM/Max RAM | 3PC100 DIMM/384M |
| Controllers | UATA IDE HD/FD |
| On-board I/O | 2S/P/G/2USB/PS-2 |
| Slots AGP/PCI/ISA | 1/4/2 |
| Bus Clock | 66/100MHz |
| Other Feature(s) | Jumperless BIOS |
| | |
| | $379/$409/$509 |
| | $629/$729/$929 |

| | |
|---|---|
| Chipset/Form/BIOS | 440BX/ATX/Award |
| #RAM/Max RAM | 3PC100 DIMM/384M |
| Controllers | UATA IDE HD/FD |
| On-board I/O | 2S/P/G/2USB/PS-2 |
| Slots AGP/PCI/ISA | 1/4/3 |
| Bus Clock | 66/100MHz |
| Other Feature(s) | |
| | |
| | $379/$409/$509 |
| | $629/$729/$929 |

| | |
|---|---|
| Chipset/Form/BIOS | 440BX/ATX/Award |
| #RAM/Max RAM | 4PC100 DIMM/512MB |
| Controllers | UATA IDE HD/FD |
| On-board I/O | 2S/P/G/2USB/PS-2 |
| Slots AGP/PCI/ISA | 1/4/2 |
| Bus Clock | 66/100MHz |
| Other Feature(s) | |
| | |
| | $369/$399/$499 |
| | $619/$719/$919 |

| | |
|---|---|
| Chipset/Form/BIOS | 440BX/ATX/Award |
| #RAM/Max RAM | 3PC100 DIMM/384M |
| Controllers | UATA IDE HD/FD |
| On-board I/O | 2S/P/G/2USB/PS-2 |
| Slots AGP/PCI/ISA | 1/4/3 |
| Bus Clock | 66/100MHz |
| Other Feature(s) | |
| | |
| | $389/$419/$519 |
| | $639/$739/$939 |

| | |
|---|---|
| Chipset/Form/BIOS | 440BX/ATX/Award |
| #RAM/Max RAM | 3PC100 DIMM/384M |
| Controllers | UATA IDE HD/FD |
| On-board I/O | 2S/P/G/2USB/PS-2 |
| Slots AGP/PCI/ISA | 1/4/2 |
| Bus Clock | 66/100MHz |
| Other Feature(s) | Built-in Sound Card |
| | |
| | $389/$419/$519 |
| | $639/$739/$939 |

| | |
|---|---|
| Chipset/Form/BIOS | 440BX/ATX/Award |
| #RAM/Max RAM | 4PC100 DIMM/512M |
| Controllers | SCSI3/UATA IDE HD/FD |
| On-board I/O | 2S/P/G/2USB/PS-2 |
| Slots AGP/PCI/ISA | 1/4/3 |
| Bus Clock | 66/100MHz |
| Other Feature(s) | 2xAdaptec Wide SCSI |
| | |
| | $489/$519/$619 |
| | $739/$839/$1039 |

| | |
|---|---|
| Chipset/Form/BIOS | 440BX/ATX/Award |
| #RAM/Max RAM | 4PC100 DIMM/512M |
| Controllers | SCSI3/UATA IDE HD/FD |
| On-board I/O | 2S/P/G/2USB/PS-2 |
| Slots AGP/PCI/ISA | 1/4/3 |
| Bus Clock | 66/100MHz |
| Other Feature(s) | Dual Pentium II CPU |
| | |
| | $489/$519/$619 |
| | $739/$839/$1039 |

| | |
|---|---|
| Chipset/Form/BIOS | 440BX/ATX/Award |
| #RAM/Max RAM | 4PC100 DIMM/1GB |
| Controllers | ULTRA2SCSI/UATA/FD |
| On-board I/O | 2S/P/G/2USB/PS-2 |
| Slots AGP/PCI/ISA | 1/4/2 |
| Bus Clock | 66/100MHz |
| Other Feature(s) | Adaptec Ultra2LVD SCSI |
| | |
| | $499/$529/$629 |
| | $749/$849/$1049 |

| | |
|---|---|
| Chipset/Form/BIOS | 440BX/ATX/Award |
| #RAM/Max RAM | 4PC100 DIMM/512M |
| Controllers | SCSI3/UATA IDE HD/FD |
| On-board I/O | 2S/P/G/2USB/PS-2 |
| Slots AGP/PCI/ISA | 1/4/3 |
| Bus Clock | 66/100MHz |
| Other Feature(s) | Dual Pentium II CPU |
| | 2xAdaptec Wide SCSI |
| | $599/$629/$729 |
| | $849/$949/$1149 |

| | |
|---|---|
| Chipset/Form/BIOS | 440BX/ATX/Award |
| #RAM/Max RAM | 4PC100 DIMM/1GB |
| Controllers | ULTRA2SCSI/UATA/FD |
| On-board I/O | 2S/P/G/2USB/PS-2 |
| Slots AGP/PCI/ISA | 1/4/2 |
| Bus Clock | 66/100MHz |
| Other Feature(s) | Dual Pentium II CPU |
| | Adaptec Ultra2LVD SCSI |
| | $629/$659/$759 |
| | $879/$979/$1179 |

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## PENTIUM II BAREBONES

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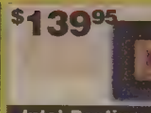
*Perfect for upgrading*

Pentium II LX Motherboard, Intel CPU, CPU Fan/HeatSink, 0K RAM, 3.5" 1.44M Floppy Drive, ATX Medium Tower Case

**with CPU**

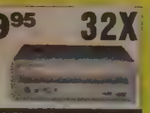
| | |
|---|---|
| w/Celeron 266 MMX | $329.95 |
| w/Pentium II 233 MMX | $399.95 |
| w/Pentium II 266 MMX | $429.95 |
| w/Pentium II 300 MMX | $529.95 |
| w/Pentium II 333 MMX | $649.95 |



$139.95 **Intel Pentium 233 MMX CPU**

$139.95 **Samsung 4.3GB Ultra DMA-33 IDE HD**

$349.95 **IBM 4.5GB 7200RPM Ultra Wide SCSI HD**



$69.95 32X **Toshiba 32X IDE CD-ROM Drive**

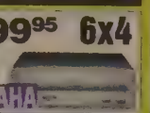
$79.95 **Iomega 100MB IDE Internal ZIP Drive**

$199.95 **ATI All-in-Wonder Pro** 3D · Video Capture · TV

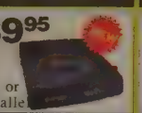
$329.95 **Intel Pentium II 300 MMX CPU**

$89.95 **AMD K6-233 MMX CPU**

$169.95 **Maxtor 6.4GB UltraDMA IDE Drive**



$499.95 6x4 **Yamaha 6x4x2 SCSI CD-Rewritable Drive**



$189.95 **Syquest Sparq 1GB Removable Drive**

$89.95 **Diamond Viper V330** 128-bit Graphics/4M

## CPU/PROCESSORS

**intel**

| | |
|---|---|
| Pentium 166 MMX | $99.95 |
| Pentium 200 MMX | $119.95 |
| Pentium 233 MMX | $129.95 |

| | |
|---|---|
| PII Celeron 266 MMX | $129.95 |
| PII Celeron 300 MMX | $199.95 |
| Pentium II 233 MMX | $199.95 |
| Pentium II 266 MMX | $229.95 |
| Pentium II 300 MMX | $329.95 |
| Pentium II 333 MMX | $449.95 |
| Pentium II 350 MMX | $549.95 |
| Pentium II 400 MMX | $749.95 |

**Cyrix**

| | |
|---|---|
| M2 - 686MX-233 MMX | $69.95 |

**AMD**

| | |
|---|---|
| K6-233 MMX | $89.95 |
| K6-266 MMX | $119.95 |
| K6-300 MMX | $159.95 |
| K6-2 266 MMX w/3DNow! | $159.95 |
| K6-2 300 MMX w/3DNow! | $199.95 |

### CPU Fan & Heat Sinks

| | |
|---|---|
| CPU Fan for Pentium Ball-bearing | $9.95 |
| Smart CPU Fan for Pentium Ball | $14.95 |
| CPU Fan for Pentium II Ball-bearing | $19.95 |

## MEMORY

### 72 Pin SIMM

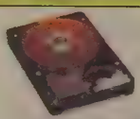
| | |
|---|---|
| 8MB 2x32 · EDO 60ns | $14.95 |
| 16MB 4x32 · EDO 60ns | $19.95 |
| 32MB 8x32 · EDO 60ns | $39.95 |

### 168 Pin DIMM

| | |
|---|---|
| 32MB SDRAM 4x64 · 10ns | $39.95 |
| 64MB SDRAM 8x64 · 10ns | $89.95 |
| 128MB SDRAM 16x64 · 10ns | $179.95 |
| 128MB SDRAM ECC 16x72 | $199.95 |

### 168 Pin PC100 DIMM

| | |
|---|---|
| 32MB SDRAM 4x64 · 100MHz | $49.95 |
| 64MB SDRAM 8x64 · 100MHz | $99.95 |
| 128MB SDRAM 16x64 · 100MHz | $199.95 |



## IDE HARD DRIVES

**FUJITSU**

10ms · 16.6MB/s · 5400rpm · Fast ATA-3 · 128K

3.2GB Ultra ATA MPA3032AT/U $139.95

**IBM**

9.5ms Access · 33.3MB/s · Ultra ATA/33 · 512K

| | |
|---|---|
| 6.4GB Ultra ATA 36480A | $179.95 |
| 8.4GB Ultra ATA 38430A | $249.95 |
| 10.1GB Ultra ATA 7200rpm | $349.95 |

**Maxtor**

### DiamondMax (Ultra ATA)

9.5ms · 33.3MB/s · 5200rpm · Ultra ATA/33 · 256K

| | |
|---|---|
| 3.2GB Ultra DMA 83240D4 | $129.95 |
| 4.3GB Ultra DMA 84320D5 | $139.95 |
| 6.4GB Ultra DMA 86400D7 | $169.95 |
| 7.0GB Ultra DMA 87000D8 | $199.95 |
| 8.4GB Ultra DMA 88400D8 | $249.95 |
| 10.0GB Ultra DMA | $279.95 |
| 11.5GB Ultra DMA | $299.95 |
| 13.6GB Ultra DMA | $399.95 |

**Quantum**

### Bigfoot TX (Ultra ATA)

<11ms · 33.3MB/s · Ultra ATA/33 · 128K

| | |
|---|---|
| 6.0GB Ultra ATA TX6.0 | $179.95 |
| 8.0GB Ultra ATA TX8.0 | $229.95 |
| 12.0GB Ultra ATA TX12.0 | $299.95 |

### Fireball (Ultra ATA)

9.5ms · 33.3MB/s · 5400rpm · Ultra ATA/33 · 128K

| | |
|---|---|
| 4.3GB Ultra ATA | $159.95 |
| 6.4GB Ultra ATA | $199.95 |
| 8.4GB Ultra ATA | $279.95 |

### Fireball EL (Ultra ATA)

9.5ms · 33.3MB/s · 5400rpm · Ultra ATA/33 · 512K

| | |
|---|---|
| 5.1GB Ultra ATA | $189.95 |
| 7.6GB Ultra ATA | $249.95 |
| 10.1GB Ultra ATA | $319.95 |

**SAMSUNG**

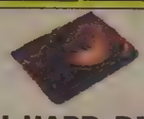
<10ms Access · 16.8 or 33.3MB/s · Fast ATA-2 · 128K

| | |
|---|---|
| 2.1GB 32160A | $119.95 |
| 3.2GB Ultra ATA 33200A | $129.95 |
| 4.3GB Ultra ATA 34300A | $139.95 |

**WESTERN DIGITAL**

<11ms · 33.3MB/s · 5400rpm · Ultra DMA/33 · 256K

| | |
|---|---|
| 3.2GB Ultra DMA AC33200A | $139.95 |
| 4.3GB Ultra DMA AC34300A | $149.95 |
| 6.4GB Ultra DMA AC36400A(9.5ms) | $189.95 |
| 8.4GB Ultra DMA AC38400A(9.5ms) | $249.95 |



## SCSI HARD DRIVES

**IBM**

| | |
|---|---|
| 4.3GB 34330 · Ultra Wide SCSI · 8ms | $289.95 |
| 4.5GB 9ES · Ultra Wide · 7200rpm/7.5ms | $349.95 |
| 9.1GB 9ES · Ultra Wide · 7200rpm/6.3ms | $649.95 |
| 9.1GB 9ZX · Ultra Wide · 10000rpm/6.3ms | $899.95 |
| 9.1GB 9ZX · Ultra2LVD · 10000rpm/6.3ms | $999.95 |
| 18.1GB 9XP · Ultra Wide · 7200rpm/7.5ms | $1299.95 |
| 18.1GB 9ZX · Ultra2LVD · 10000rpm/6.3ms | $1499.95 |

**Quantum**

| | |
|---|---|
| 4.3GB Fireball ST · Ultra Narrow · 9ms | $279.95 |
| 6.4GB Fireball ST · Ultra Narrow · 9ms | $349.95 |
| 8.4GB Fireball ST · Ultra Narrow · 9ms | $429.95 |
| 4.5GB VK2/Ultra2LVD · 8ms · 7200rpm | $599.95 |
| 9.1GB Atlas 3/Ultra2LVD · 8ms · 7200rpm | $899.95 |
| 18.1GB Atlas 3/Ultra2LVD · 8ms · 7200rpm | $1399.95 |

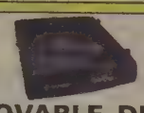
## HD CONTROLLERS

### IDE/Enhanced IDE

| | |
|---|---|
| ISA IDE-I/O IDE · 2S/P/G · 16550 UART | $14.95 |
| Promise Ultra ATA/33 IDE PCI | $39.95 |

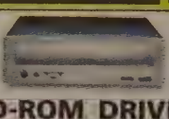
### SCSI-2/SCSI-3

| | |
|---|---|
| Adaptec 1505 ISA SCSI-2 | $39.95 |
| Adaptec 1515 ISA SCSI-2/BIOS | $49.95 |
| Diamond Fireport 40 PCI UltraWide | $99.95 |
| Adaptec 2940U PCI Ultra Narrow | $149.95 |
| Adaptec 2940UW PCI Ultra Wide | $169.95 |
| Adaptec 2940U2W PCI Ultra2 LVD | $399.95 |



## REMOVABLE DRIVES

| | |
|---|---|
| Iomega Jaz 1GB Int SCSI | $279.95 |
| Iomega Jaz 1GB Ext SCSI | $349.95 |
| Iomega Jaz 2GB Int SCSI | $499.95 |
| Iomega Jaz 2GB Ext SCSI | $599.95 |
| Iomega Jaz Disk | $89.95 |
| Iomega Zip 100 Int IDE OEM | $79.95 |
| Iomega Zip 100 Ext Parallel | $129.95 |
| Iomega Zip 100 Ext SCSI | $129.95 |
| Iomega Zip Plus 100 Ext | $179.95 |
| Iomega Zip Disk/Single | $14.95 |
| Iomega Zip Disks/3 Pak | $39.95 |
| Iomega Zip Disks/10 Pak | $119.95 |
| Syquest SparQ 1GB Int IDE | $189.95 |
| Syquest SparQ 1GB Ext Parallel | $189.95 |
| Syquest SparQ 1GB Disk | $39.95 |
| Syquest SparQ 1GB Disk/3 | $99.95 |



## CD-ROM DRIVES

### IDE CD-ROM DRIVES

| | |
|---|---|
| Acer 24X 110ms · 3600KB/s | $49.95 |
| Toshiba 24X 85ms · 3600KB/s | $59.95 |
| Samsung 32X 95ms · 4800KB/s | $59.95 |
| Sanyo 32X 95ms · 4800KB/s | $59.95 |
| Creative 32X 75ms · 4800KB/s | $69.95 |
| Toshiba 32X 75ms · 4800KB/s | $69.95 |
| Toshiba 32X Slot 75ms · 4800KB/s | $79.95 |

### SCSI CD-ROM DRIVES

| | |
|---|---|
| Toshiba 32X SCSI 75ms · 4800KB/s | $99.95 |

## CD-RECORDABLE DRIVES

| | |
|---|---|
| Mitsumi 8x2 IDE Int (drive only) | $279.95 |
| Sony 8x2 IDE Int (drive only) | $299.95 |
| Sony 6x2 SCSI Int (drive only) | $329.95 |
| Sony 8x4 SCSI Int (drive only) | $429.95 |
| Adaptec CD Creator Software | $39.95 |
| CD-R Blank Media 630MB/74 Min | $3.95 |
| CD-R 10 Pak 630MB/74 Min | $29.95 |

## CD-REWRITABLE DRIVES

| | |
|---|---|
| HP 6x2x2 IDE Int w/software | $399.95 |
| Yamaha 6x4x2 IDE Int (drive only) | $479.95 |
| Yamaha 6x4x2 SCSI Int (drive only) | $499.95 |
| Yamaha 6x4x2 SCSI Ext (drive only) | $599.95 |

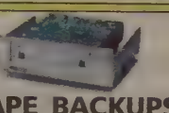
## DVD-ROM DRIVES

| | |
|---|---|
| Toshiba DVD-ROM Drive | $99.95 |
| Pioneer 2X DVD-ROM Drive | $129.95 |
| Toshiba 2X DVD-ROM Drive | $129.95 |
| MPEG-2/AC-3 Decoder | $129.95 |

### DVD-ROM KITS

| | |
|---|---|
| Creative Labs Encore DXR2 Kit | $229.95 |

2nd Generation DVD-ROM Drive · Creative MPEG-2/AC3



## TAPE BACKUPS

| | |
|---|---|
| 3.2GB HP Colorado T3000 Int | $169.95 |
| 5.0GB HP Colorado T5000 IDE | $199.95 |
| FC20 1MB Tape Controller | $69.95 |
| 7.0GB Iomega DittoMax Int | $199.95 |
| 8.0GB Seagate T8000 IDE Int | $229.95 |
| 8.0GB Seagate T8000 SCSI Int | $299.95 |

## FLOPPY DRIVES

| | |
|---|---|
| Mitsumi 3.5" 1.44M | $22.95 |
| Teac 3.5" 1.44M | $24.95 |

## AGP GRAPHICS CARDS

| | |
|---|---|
| AGP Trident 9750 3D/4MB | $29.95 |
| AGP Intel i740 3D/8MB | $69.95 |

**Now You See It... ATI**

| | |
|---|---|
| AGP 3D XPERT'98/8MB | $99.95 |
| AGP 3D XPERT@Work/4MB | $99.95 |
| AGP 3D XPERT@Play/4MB | $119.95 |
| AGP 3D XPERT@Play/8MB | $159.95 |
| AGP All-in Wonder Pro/4MB | $219.95 |
| AGP All-in Wonder Pro/8MB | $259.95 |

**DIAMOND**

| | |
|---|---|
| AGP Stealth 3D 4000/4MB | $59.95 |
| AGP Viper V330/4MB 128-bit | $89.95 |
| AGP Stealth II 460/8MB | $99.95 |
| AGP Fire GL 1000 Pro/8MB | $179.95 |

**Matrox**

| | |
|---|---|
| AGP Productiva G100/8MB | $99.95 |

**STB Graphics**

| | |
|---|---|
| AGP Velocity 128/4MB | $99.95 |

## PCI GRAPHICS CARDS

| | |
|---|---|
| Trident 8900 ISA/1M | $29.95 |
| S3-Trio64 PCI/2M EDO | $29.95 |
| S3-Virge3D PCI/4M EDO | $39.95 |

**Now You See It... ATI**

| | |
|---|---|
| 3D XPERT@Play/4M PC2TV | $119.95 |
| 3D XPERT@Play/8M PC2TV | $159.95 |
| All-in Wonder Pro TV/4M | $199.95 |
| All-in Wonder Pro TV/8M | $239.95 |

**DIAMOND**

| | |
|---|---|
| Stealth II 220/4MB | $79.95 |
| Viper V330/4MB 128-bit | $89.95 |
| Fire GL 1000 Pro/8MB | $159.95 |

**matrox**

| | |
|---|---|
| Millenium II/4M WRAM | $129.95 |
| Millenium II/8M WRAM | $179.95 |

## 3DFX VOODOO GRAPHICS UPGRADES

**DIAMOND**

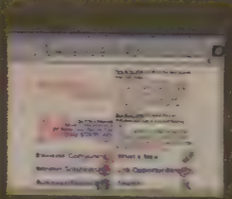
| | |
|---|---|
| Monster 3D/4MB Voodoo | $99.95 |
| Monster 3D II/8MB Voodoo 2 | $189.95 |
| Monster 3D II/12MB Voodoo 2 | $249.95 |

**CREATIVE**

| | |
|---|---|
| 3D Blaster Voodoo2/8MB | $179.95* |

*after $30 mail-in rebate

| | |
|---|---|
| 3D Blaster Voodoo2/12MB | $269.95 |



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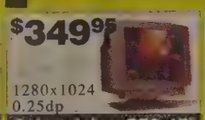
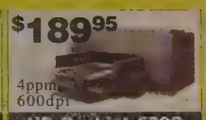
$249.95 OEM
Diamond Monster 3D II 3DFx Voodoo2 12M



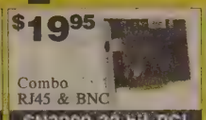
$349.95
1280x1024 0.25dp
Cybervision C72 17" Flat 0.25dp Monitor

$549.95
1600x1200 0.26dp
Mag DJ800 19" Flat 0.26dp Monitor

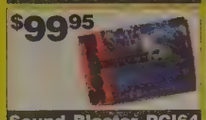


$189.95
4ppm 600dpi
HP Deskjet 672C Color Inkjet Printer

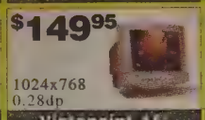
$79.95
v.90 & K56Flex
Diamond Supra v.90 56K PCI Fax Modem Voice



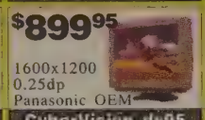
$19.95
Combo RJ45 & BNC
SN3200 32-bit PCI Ethernet Adapter



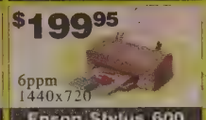
$99.95
Sound Blaster PCI64 32-bit PCI Sound Card



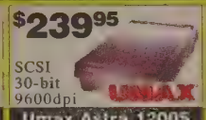
$149.95
1024x768 0.28dp
Vistapoint 15" 0.28 Flat Monitor



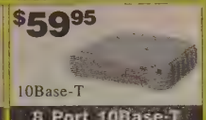
$899.95
1600x1200 0.25dp Panasonic OEM
CyberVision ds95 19" 0.25 Flat Monitor



$199.95
6ppm 1440x720
Epson Stylus 600 Color Inkjet Printer



$239.95
SCSI 30-bit 9600dpi UMAX
Umax Astra 1200S 30-bit Color Scanner



$59.95
10Base-T
8 Port 10Base-T Ethernet Hub

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Intel Triton TX Motherboard/512K Pipeline Cache, CPU, CPU Fan/HeatSink, OK RAM, 3.5" 1.44M Floppy Drive, Medium Tower Case

**with CPU**

| | | | |
|---|---|---|---|
| w/Cyrix 686mx-200 | $219.95 | w/AMD K6-300 MMX | $309.95 |
| w/Cyrix 686mx-233 | $229.95 | w/Intel Pent 166 MMX | $249.95 |
| w/AMD K6-233 MMX | $239.95 | w/Intel Pent 200 MMX | $269.95 |
| w/AMD K6-266 MMX | $269.95 | w/Intel Pent 233 MMX | $289.95 |

## MONITORS

### 14" & 15" MONITORS

- **Techmedia 14"** 1024x768 0.28 — $119.95
- **Cybervision 14"** C40 1024x768 0.28 — $129.95
- **VistaPoint 15"** 1024x768 0.28 — $149.95
- **Cybervision 15"** C50 1024x768 0.28 — $169.95
- **Panasonic 15"** P50 1280x1024 0.27 — $259.95

### 17" MONITORS

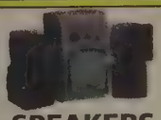
- **Sunview 17"** 1784 1280x1024 0.28 — $249.95
- **VistaPoint 17"** 1280x1024 0.27 — $249.95
- **Sunview 17"** 1764 1280x1024 0.26 — $279.95
- **Cybervision 17"** C70 1280x1024 0.27 — $299.95
- **Panasonic 17"** S70 1280x1024 0.27 — $329.95
- **Cybervision 17"** C72 1280x1024 0.25 — $349.95
- **Cybervision 17"** ds86D 1600x1200 0.25 — $429.95
- **Sony 17"** 200ES 1280x1024 0.25 — $499.95
- **Iiyama 17"** 9017 Pro 1600x1200 0.25 — $549.95
- **Viewsonic 17"** GT775 1600x1200 0.25 — $549.95
- **Viewsonic 17"** PT775 1600x1200 0.25 — $599.95

### 19" & UP MONITORS

- **Mag 19"** DJ800 Jag 1600x1200 0.26 — $549.95
- **Cybervision 19"** DS92 1600x1200 0.26 — $599.95
- **Cybervision 21"** C112 1600x1200 0.25 — $899.95
- **Viewsonic 21"** G810 1600x1200 0.25 — $999.95
- **Viewsonic 21"** P810 1600x1200 0.25 — $1099.95
- **Viewsonic 21"** P815 1880x1440 0.25 — $1299.95
- **Viewsonic 21"** PT813 1600x1200 0.28 — $1299.95

### LCD FLAT PANEL DISPLAYS

- **Viewsonic 14"** VLP138 1024x768 — $999.95

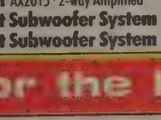


## SOUND CARDS

- **Yamaha 16** 16-bit w/SW Wavetable — $19.95
- **Monster 3D Sound 80** 32-bit PCI — $119.95

Sound Blaster

- **Sound Blaster 16PnP** 16-bit OEM — $39.95
- **Sound Blaster Awe64 Value** OEM — $69.95
- **Sound Blaster PCI64** — $99.95
- **Sound Blaster Awe64 Gold** — $149.95



## SPEAKERS

- **50 Watt** SP100 · 2-way Amplified — $9.95
- **180 Watt** AX2015 · 2-way Amplified — $19.95
- **350 Watt Subwoofer System** — $59.95
- **500 Watt Subwoofer System** — $79.95

## FAX MODEMS

- **33.6 Fax Modem/Voice** Int — $29.95
- **56K x2 Fax Modem/Voice** Int — $39.95
- **56K K56 Fax Modem/Voice** Int — $49.95
- **56K v.90 Fax Modem/Voice** Int — $49.95

DIAMOND

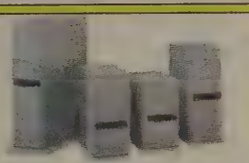
- **Supra K56 Fax Modem/Voice** — $79.95
- **Supra PCI Fax Modem/Voice** — $79.95

3Com US Robotics

- **Int 33.6 Fax Modem/Voice** — $89.95
- **Int 56K v90 Fax Modem** — $119.95
- **Ext 56K v90 Fax Modem** — $139.95
- **Int 56K v90 Fax Modem/Voice** — $139.95
- **Ext 56K v90 Fax Modem/Voice** — $179.95
- **Pro Ext 56K Fax Modem/Voice** — $199.95

### PCMCIA FAX MODEMS

- **33.6 Fax Modem** PCMCIA Type II — $79.95
- **Megahertz 56K Fax Modem** — $179.95



## CASES

- **Impact** Mini/Med/Full x14 — $29/35/69
- **Door** Mini/Med/Full x13 — $39/49/89
- **ATX** Med/Full x14-x — $69/99

### SERVER CASES

- **SuperServer** 300W AT — $179
- **SuperServer/Redundant** 300W — $449

### RACKMOUNT CASES

- **Rackmount** 300W AT — $399
- **Rackmount/Redundant** 300W — $999

## SCANNERS

- **Umax Astra 610S** 30-bit · 4800dpi — $149.95
- **Umax Astra 1220P** 30-bit · 9600dpi — $199.95
- **Umax Astra 1200S** 30-bit · 9600dpi — $239.95
- **Umax Astra 1200S** w/Photoshop LE — $299.95

## DIGITAL CAMERAS

- **Toshiba CCD Color Camera** 270K — $99.95
- **Kodak DC120** 1280x960 · 3x zoom · 2M — $799.95
- **Kodak DC210** 1152x896 · 2x zoom · 2M — $899.95

## PRINTERS

EPSON

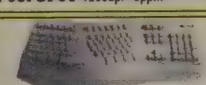
- **Stylus Color 400** 720x720 · 4ppm — $159.95
- **Stylus Color 600** 1440x720 · 6ppm — $199.95
- **Stylus Color 700** 1440x720 · 6 color — $279.95
- **Stylus Color 800** 1440x720 · 8ppm — $299.95
- **Stylus Color 850** 1440x720 · 8ppm — $379.95
- **Stylus Color 1520** 1440x720 · 13x19 — $729.95

HEWLETT PACKARD

- **Deskjet 672C** 600dpi · 4ppm — $189.95
- **Deskjet 722C** 600dpi · 7ppm — $299.95
- **Deskjet 890C** 600dpi · 9ppm — $379.95
- **Deskjet 1120C** 600dpi · Large 13x19 — $479.95
- **Laserjet 6L** 600dpi · 6ppm — $399.95
- **Laserjet 6P** 600dpi · 8ppm — $749.95

Lexmark

- **Color Jet 1000** 600dpi · 3ppm — $89.95*
  *after $40 mail-in Lexmark rebate
- **Color Jet 5700** 1200dpi · 6ppm — $249.95*

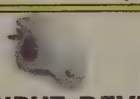


## KEYBOARDS

- **104-key** Win95 Enhanced — $9.95
- **Fujitsu 8725** Win95 — $24.95
- **Focus 2001** Win95 Click w/Cover — $29.95
- **In-Control Net** w/Internet/MM keys — $39.95
- **Focus 7200/Trackball** Win95 — $39.95
- **Fujitsu 4725** Win95 — $44.95
- **Microsoft Natural** Ergo Win95 — $49.95
- **Wave/TouchPad** Ergo Win95 — $49.95
- **Focus 8200/Calculator** Win95 — $59.95
- **Wave/TouchPad & Pen** Ergo — $79.95

### WIRELESS KEYBOARDS

- **Wireless/Pointer** Win95 — $79.95
- **Keytronic LT Wireless/Trackball** — $99.95
- **Keytronic LT Wireless/Touchpad** — $99.95



## MICE/INPUT DEVICES

- **Standard Serial 3 Button** — $7.95
- **A4 Serial Trackball** — $29.95
- **Genius Net Mouse** — $19.95
- **Microsoft Mouse** Serial or PS/2 — $29.95
- **Microsoft Intellimouse** Serial or PS/2 — $39.95
- **Logitech 2-Button** Serial — $19.95
- **Logitech Mouseman** Combo — $29.95
- **Logitech Net Mouseman** — $39.95
- **Logitech Marble Trackman** Combo — $59.95

## ETHERNET ADAPTERS

- **ISA Ethernet** SN2000 Combo RJ45/BNC — $17.95
- **PCI Ethernet** SN3200 Combo RJ45/BNC — $19.95

3Com

- **3C509-TPO ISA** RJ45 — $49.95
- **3C509B-C ISA** Combo RJ45/BNC — $69.95
- **3C900-C PCI** Combo RJ45/BNC — $79.95

### FAST ETHERNET 10/100 ADAPTERS

3Com

- **3C905TX PCI** RJ45 — $69.95

intel

- **EtherExpress Pro PCI 100** RJ45 — $59.95

## ETHERNET HUBS

- **4 Port** RJ45/BNC — $39.95
- **8 Port** RJ45/BNC — $59.95
- **16 Port** RJ45/BNC — $99.95

3Com

- **8 Port Office Connect TP** RJ45 — $99.95
- **8 Port Office Connect TC** RJ45/BNC — $129.95
- **16 Port Office Connect** RJ45/BNC — $349.95
- **12 Port SuperStack II** RJ45/BNC — $499.95
- **24 Port SuperStack II** RJ45/BNC — $799.95

### FAST ETHERNET HUBS

3Com

- **8 Port Office Connect 100BT** — $699.95
- **12 Port SuperStack II 100BT** — $899.95
- **24 Port SuperStack II 100BT** — $1499.95
- **12P SuperStack Switch 3000** — $2499.95

NETGEAR

- **8 Port 100TX Ethernet Hub** — $799.95
- **7 Port 10/100 Ethernet Switch** — $999.95

## NETWORK CABLES

### RJ45 Twisted Pair/Cat 5

- **1000 Foot Spool** RJ45 Category 5 — $99.95
- **Per Foot** RJ45 Category 5 — $0.29/ft
- **10' Patch Cable** RJ45 Category 5 — $6.95
- **15' Patch Cable** RJ45 Category 5 — $9.95
- **25' Patch Cable** RJ45 Category 5 — $14.95

### BNC Coax

- **1000 Foot Spool** BNC — $99.95
- **Per Foot** BNC — $0.29/ft
- **10' Patch Cable** BNC — $6.95
- **25' Patch Cable** BNC — $14.95
- **50' Patch Cable** BNC — $24.95

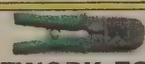
## CONNECTORS/JACKS

### RJ45 Twisted Pair

- **RJ45 Connector** — $0.79
- **RJ45 Connector/50 Pak** — $34.95
- **RJ45 Wall Jack** — $9.95

### BNC Coax

- **RG58 BNC Connector** — $2.95
- **RG58 BNC T-Connector** — $2.95
- **RG58 50Ohm Terminator** — $2.95



## NETWORK TOOLS

- **RJ45 Crimp Tool** — $29.95
- **BNC Crimp Tool** — $29.95

## NETWORK SOFTWARE

Microsoft

- **Windows NT 4.0 Workstation** — $179.95
- **Windows NT 4.0 Server**
  - 5 user — $599.95
  - 10 user — $799.95
  - additional user licenses — $39.95
- **Small Business Server 4.0**
  - 5 user — $1499.95
- **Back Office Server 4.0**
  - 5 user — $2499.95

Novell

- **IntraNetware/Small Business**
  - 5 user — $499.95
  - additional 5 user licenses — $299.95

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SDRAM 16X64-10 128MB $129
SDRAM 32X64-10 256MB $329

## Desktop Memory

| Apple | 8M | 16M | 32M | 64M | 128M |
|---|---|---|---|---|---|
| MAC G-3 (NEW) | | | | 149 | 309 |
| 8500, 9500 DIMMS | | 55 | 75 | 129 | 309 |
| QUADRA 700,900, 950 (KT) | 39 | 79 | | 239 | |
| QUADRA 800, 840 AV, | 25 | 38 | | | |
| QUADRA 605, 610, 650 | | 25 | 38 | | |
| CENTRIS 610, 650,660 | | 29 | 38 | | |
| PERFORMA 450, 460, 466,467, 475,550,575,577,578 | 29 | 38 | | | |
| MAC II, IICI, IICX, IIVI, IIVX, IIX, SE30 | 39 | 59 | 79 | | |

| AST | 8M | 16M | 32M | 64M | 128M |
|---|---|---|---|---|---|
| ADVENTURE 200,400 (AMD) | | 45 | 75 | | |
| PREMIA 4/33,336,50D, 66D | | 59 | 79 | | |
| ADVANTAGE! PLUS/PRO | | 29 | | 45 | |
| BRAVO LC 5166,5200 (SDM) | 45 | 75 | 159 | 269 | |
| BRAVO MS 5166,5200(SDM) | | 45 | 75 | 159 | 269 |
| MANHATTAN D 6200 | | 69 | 89 | 159 | 269 |
| MANHATTAN PRESC PRO 6200 | 69 | 89 | 159 | 269 | |
| PREMIUM 486 (ALL) | CALL | | | | |

| COMPAQ | 8M | 16M | 32M | 64M | 128M |
|---|---|---|---|---|---|
| DESKPRO 2000 5166MMX (SD) | 45 | | 75 | 159 | 269 |
| DESKPRO 4000 5166MMX (SD) | | 45 | 75 | 159 | 269 |
| DESKPRO 6000 6233,6300(SDE) | | | 89 | 185 | 309 |
| DESKPRO XL 6150/6200 (DIM) | 69 | 79 | 189 | 349 | |
| DESKPRO 486 SERIES | CALL | | | | |
| DESKPRO M SERIES EXP BOARD 0 MB | $119.00 | | | | |
| PROLINEA 486 SERIES | 35 | | 59 | 85 | |
| PROSIGNIA 486/33, /66 | 35 | | 59 | 85 | |
| PRESARIO 400,600, 80035 | | 59 | 85 | | |
| PRESARIO CDS 720,724, | 35 | 59 | 85 | | |
| PRESARIO 8/72 (SDRAM) | | 59 | 79 | | |
| PROLIANT 6000,6580, 7000 6200 NEW | CALL | | | | |
| PROLIANT 1500,6/200 FLEX (DIM | | | 79 | 185 | 349 |
| PROLIANT 2500,2500R (DIMM) | | | 79 | 185 | 349 |
| PROLIANT 486 SERIES | | 49 | 65 | | |

| DELL | 8M | 16M | 32M | 64M | 128M |
|---|---|---|---|---|---|
| DIMNSION XPS D 233/266/300 (NEW) | 79 | 185 | 329 | | |
| DIMNSION XPS M166/200 | | 45 | 79 | | |
| XPS 133S,166S,200S, | | 45 | 79 | | |
| XPS P133V,P200V | | 45 | 79 | | |
| DIMENSION XPS H233,266 | | 65 | 99 | 149 | |
| DIMENSION XPS P100C,120C ED | | 49 | 65 | 105 | |
| OPTIPLEX GXA PII 233,266,300 (SDE) | | | 95 | 189 | 369 |
| OPTIPLX GXI,GX PRO200 (DIMM) | | 69 | 79 | 189 | 349 |
| OPTIPLEX GL,GM,GMT, (ED) | | 45 | 65 | 105 | |
| OPTIPLX GS,GXL,GXMT(ED) | | 45 | 65 | 105 | |
| PRECISION 486 | 45 | 59 | | | |
| PERFORMANCE | 45 | 59 | | | |
| POWEREDGE 2100,4100,6100 | 69 | 79 | 185 | 349 | |
| POWERDESKTOP | 45 | 59 | | | |
| POWERLINE WKST | 45 | 59 | | | |
| WORKSTATION 400 PII 266,300 NEW | 79 | 185 | 349 | | |

| INTEL | 8M | 16M | 32M | 64M | 128M |
|---|---|---|---|---|---|
| E-1000,E-3000,E-3100(SD) | | | 79 | 195 | 339 |
| E-5000-2266,2300 (SDE) | | | 95 | 189 | 349 |
| PROFESSNL P5/100, (DIMM) | | 45 | 79 | | |
| P5/120, P5/133, P5/166,P5/200 | | 45 | 79 | | |
| PC FAMILY P5/200 (DIMM) | | 45 | 79 | | |
| DESTN D-5 P5/200 MMX (DIMM) | | 45 | 79 | | |
| DESTINATION D6-180,6-200 | | 45 | 79 | | |

| HEWLETT PACKARD | 16M | 32M | 64M | 128M |
|---|---|---|---|---|
| BRIO 8000,8100 SERIES (ED) | 65 | 105 | | |
| KAYAK XA PII 233,266,300 (NEW) | | 69 | 159 | 269 |
| KAYAK XU/XW PII 233,266,300 (SDE) | 89 | 189 | 369 | |
| PAVILLION 5010-7170 ED | | 45 | 65 | 105 |
| NETSERVER LH +,5133/166 | | 69 | 79 | 185 | 349 |
| NETSERVER LH PRO PRO/20069 | | 79 | 185 | 349 | |
| NETSRVR LX PRO/LXE 6/166,6/2006979 | | 185 | 349 | | |
| VECTRA 500 SERIES (ED) | | 45 | 65 | 105 | |
| VECTRA VL4 5/150,5/166 | | 45 | 65 | 105 | |
| VECTRA XA 6/180, 6/200 | | 45 | 65 | 105 | |

| IBM | 8M | 16M | 32M | 64M | 128M |
|---|---|---|---|---|---|
| APTIVA 300,500&'M' | 35 | 45 | | | |
| APTIVA A SERIES ED | | 45 | 65 | | |
| APTIVA C21-C77 | 29 | 45 | 65 | | |
| APTIVA C3D,C5E,C8E,C9E(SDRM | | 45 | 79 | | |
| APTIVA S3C,S3S,S8C,S9C,S9SDR | 45 | 79 | | | |
| APTIVA S64-S90 ED | | 45 | 65 | 105 | |
| PC 300 GL (SDRM) | | 45 | 79 | | |
| PC 330 6576 SER (PENT) | | 45 | 65 | 105 | |
| PC 700 SERIES PENTIUM | | 45 | 65 | 105 | |
| PC 730 SERIES PENTIUM | | 45 | 65 | 105 | |
| PC 750 SERIES PENTIUM | | 45 | 65 | 105 | |
| PC 300 XL PENTIUM II (MDL6588) | 69 | 79 | 185 | 349 | |
| PC SRVR 325 PRO 180/200 (8369 | 69 | 79 | 185 | 349 | |
| PC SERVER 330 PRO 200 (8640/69) | 69 | 79 | 185 | 349 | |
| INTELLISTATION Z PRO 2D,3D | 69 | 79 | 185 | 349 | |
| PREMIER PS/2 56,57,58 | 35 | 39 | 59 | | |
| MULTIMEDIA M77 | 35 | 59 | 89 | | |
| PS/1 ADVISOR/ESSENTIAL | 35 | 59 | 89 | | |
| PS/1 INVESTOR/WILLOW | 35 | 59 | 89 | | |
| PS/VALUEPOINT486 (ALL): | 35 | 59 | 89 | | |

| MICRON | 16M | 32M | 64M | 128M |
|---|---|---|---|---|
| MILLENNIA XKU PII 266,300(SDRM) | 79 | 159 | 269 | |
| MILLENNIUM PRO 2 (DIMM) | 69 | 79 | 185 | 349 |
| VETIX EL 1000N,2000N (DIMM) | 69 | 79 | 185 | 349 |
| VETIX LXi(DIMM) | 69 | 79 | 185 | 349 |
| POWERDIGM XLi (DIMM) | 69 | 79 | 185 | 349 |
| POWERDIGM XSU (SDE) | | 95 | 189 | 369 |

| NEC TECHNOLOGY | 16M | 32M | 64M | 128M |
|---|---|---|---|---|
| DIRECTION SPL 233,266,300(SD) | | 79 | 159 | 269 |

## Workstation Memory

Kingston TECHNOLOGY CORPORATION

IBM RISC 6000 SERVERS - RISC 6000 STATIONS
COMPAQ PROFESSIONAL 5000
SILICON GRAPHICS INDIGO - POWER INDIGO; ONYX - CHALLENGE SERIES; O2 SERIES (NEW); OCTANE SERIES (NEW)
HEWLETT PACKARD - HP VECTRA - VECTRA XW 6200 SERIES; HP APOLLO WORKSTATION
SUN MICRO SYSTEMS SPARC STATIONS 4,5,10,20, LX SERIES; 1PX - ULTRA - CLASSIC SERIES

VISA MC C.O.D

## SDRAM 168-PIN ECC

| | |
|---|---|
| SDRAM 32X72 -8ns 3.3v ECC 256MB | 735 |
| SDRAM 16X72 -8ns 3.3v ECC 128MB | 335 |
| SDRAM 8X72 -8ns 3.3v ECC 64MB | 169 |
| SDRAM 32X64 -8ns 3.3v 256MB | 659 |
| SDRAM 16X64 -8ns 3.3v 128MB | 295 |
| SDRAM 8X64 -8ns 3.3v 64MB | 135 |

## SDRAM 168-PIN NON-ECC

| | |
|---|---|
| SDRAM 32X72 -10ns 3.3v ECC 256MB | 535 |
| SDRAM 16X72 -10ns 3.3v ECC 128MB | 275 |
| SDRAM 8X72 - 10ns 3.3v ECC 64MB | 145 |
| SDRAM 32X64 -10ns 3.3v 256MB | 529 |
| SDRAM 16X64 -10ns 3.3v 128MB | 209 |
| SDRAM 8X64 -10ns 3.3v 64MB | 109 |
| SDRAM 4X64 -10ns 3.3v 32MB | 49 |

## 168 Pin Dimm

| | |
|---|---|
| 16X72-60 EDO-ECC 3.3V BF/UBF (128MB) | 256 |
| 8X72-60 EDO-ECC 3.3V BF/UBF (64MB) | 159 |
| 4X72-60 EDO-ECC 3.3V BF/UBF (32MB) | 65 |
| 2X72-60 EDO-ECC 3.3V BF/UBF (16MB) | 49 |
| 16X64-60 EDO 3.3V UBF (128MB) | 279 |
| 8X64-60 EDO 3.3V UBF (64MB) | 115 |
| 4X64-60 EDO 3.3V UBF (32MB) | 55 |
| 2X64-60 EDO 3.3V UBF (16MB) | 45 |

## 72-Pin

| | |
|---|---|
| SIMM 32X32-60 EDO (128MB) | 285 |
| SIMM 16X32-60 EDO H (64MB) | 145 |
| SIMM 16X32-60 EDO L (64MB) | 105 |
| SIMM 8X32-60 EDO (32MB) | 42 |
| SIMM 4X32-60 EDO (16MB) | 25 |
| SIMM 2X32-60 EDO (8MB) | 17 |
| SIMM 1X32-60 EDO (4MB) | 11 |

| FAST PAGE MODE (FPM) - NON-EDO: | |
|---|---|
| SIMM 32X32-60 (128MB) | 295 |
| SIMM 16X32-60 H (64MB) | 145 |
| SIMM 8X32-60 (32MB) | 45 |
| SIMM 4X32-60 (16MB) | 28 |
| SIMM 2X32-60 (8MB) | 19 |
| SIMM 1X32-60 (4MB) | 12 |

## 72-Pin Parity

TRUE PARITY:

| | |
|---|---|
| SIMM 32X36-60 (128MB) | 279 |
| SIMM 16X36-60 H (64MB) | 195 |
| SIMM 16X36-60 L (64MB) | 145 |
| SIMM 8X36-60 (32MB) | 75 |
| SIMM 8X36-70 (32MB) | 72 |
| SIMM 4X36-60 (16MB) | 45 |
| SIMM 4X36-70 (16MB) | 44 |
| SIMM 2X36-60 (8MB) | 35 |
| SIMM 2X36-70 (8MB) | 34 |
| SIMM 1X36-60 (4MB) | 31 |
| SIMM 1X36-70 (4MB) | 19 |

Hi-High Density Lo-Low Density

## 30-Pin Simms

| | |
|---|---|
| SIMM 16X9-60 (9-CHIP) (16MB) | 55 |
| SIMM 16X9-70 (9-CHIP) (16MB) | 59 |
| SIMM 4X9-60 (9-CHIP) (4MB) | 18 |
| SIMM 4X9-80 (9-CHIP) (4MB) | 17 |
| SIMM 1X9-60 (9-CHIP) (1MB) | 10 |
| SIMM 1X9-70 (9-CHIP) (1MB) | 9 |
| SIMM 1X3-60 (9-CHIP) (1MB) | 8 |

NON PARITY:

| | |
|---|---|
| SIMM 16X8-60 (9-CHIP) (16MB) | 49 |
| SIMM 16X8-70 (9-CHIP) (16MB) | 54 |
| SIMM 4X8-60 (9-CHIP) (4MB) | 16 |
| SIMM 1X8-60 (9-CHIP) (1MB) | 9 |
| SIMM 1X8-70 (9-CHIP) (1MB) | 8 |

## Video Memory

| | 2M | 4M | 6M | 8M | 12M |
|---|---|---|---|---|---|
| ATI 3D PRO TURBO | 89 | 179 | | | |
| ATI XCLAIM 3D (SGRAM) | | 179 | | | |
| ATI 3D XPRESSION (SGRAM) | 179 | | | | |
| MATROX MILLENNIUM WRAM | 139 | 189 | | | |
| MATROX MILLENNIUM II | | | | CALL | CALL |
| MATROX MYSTIQUE (SGRAM) | 59 | | | | |

## Notebook Memory

| Apple | 8M | 16M | 32M | 64M |
|---|---|---|---|---|
| EPIC 1400 SERIES NOTEBOOK (NEW) | 89 | 149 | 229 (24MB) | |
| 520/C 540/C | | 79 | 115 | 219 |

| ACER | 8M | 16M | 32M | 64M |
|---|---|---|---|---|
| 750,750C | | 75 | 109 | |
| 730,735C,760C,760CX,780CX | | 65 | | |
| 782,784,786,787,760! | | 39 | 69 | |
| NUOVO 971,972,970DX,970MMX | 49 | | 65 | 115 |
| PRO 950, 954,955,956,957,958,959 | | 55 | 75 | 135 |
| LIGHT 350P, 356,358,359,361 | | 55 | 75 | 135 |
| LIGHT MULTIMED 382,383,384 | | | 55 | 75 | 135 |

| AST | 4M | 8M | 16M | 32M | 64M |
|---|---|---|---|---|---|
| POWEREXEC486SL/33, 425L | | | 95 | | |
| 425L SPECIAL EDITION | | | 95 | | |
| BRAVO NB/EXPLORER | 35 | | 75 | | |
| ADVANTAGE EXPLORER 212,55 | 75 | | | | |
| ASCENTIA A 41, A42,A70 MMX | | 49 | 65 | 119 | 209 |
| ASCENTIA J SERIES (KIT) | | | 55 | 75 | 135 |
| ASCENTIA P SERIES (NEW) | | 59 | 89 | 149 | |
| ASCENTIA 900, 910N,950N | | 59 | 89 | | |
| ASCENTIA 800, 810/N | | 55 | 89 | | |

| AT&T | 4M | 8M | 16M | 32M | 64M |
|---|---|---|---|---|---|
| SAFARI 3151/3161 | 49 | 65 | 89 | | |
| GLOBALYST 130 | 29 | 39 | 69 | | |

| AUSTIN NOTEBOOK | 4M | 8M | 16M | 32M | 64M |
|---|---|---|---|---|---|
| BUSINESS AUDIO XL DX4 | | | 59 | 149 | |
| DX4/DX2/SX2/SX | | 55 | | 179 | |
| VISTA | | 49 | 75 | 129 | |

| CANON | 4M | 8M | 16M | 32M | 64M |
|---|---|---|---|---|---|
| NOTEJET 486C (BN100) | | 39 | 69 | | |
| NOTEJET 486 (BN22) | | 49 | 69 | | |
| NOTEJET II (BN32) | | 49 | 69 | | |
| NOTEJET II/II CX | | 29 | 39 | 75 | |
| INNOVABOOK 1100T | | | 59 | 75 | 135 |
| INNOVABOOK 10C SUB | | 49 | | 125 | |
| INNOVABOOK 150C, 175C | | 49 | | 125 | |
| INNOVABOOK 350,360,475 | | 29 | 39 | 69 | |
| INNOVABOOK 480, 490 | | | 39 | 69 | |
| INNOVA 200LS | | 49 | 75 | 125 | |
| INNOVA 486NX | | 45 | 69 | | |

## COMPAQ SPECIAL

PRESARIO 1630 $95

| COMPAQ | 8M | 16M | 32M | 64M | |
|---|---|---|---|---|---|
| ARMADA 1100,1100T,1120,1125 | | 49 | 79 | 115 | 209 |
| ARMADA 1130,1130T | | 49 | 79 | 115 | |
| ARMADA 1510DM,1520DM,1550MT | 49 | | 79 | 115 | 209 |
| ARMADA 7710,7730,7750 | | | 49 | 79 | 115 | 209 |
| ARMADA 4100 | | 49 | 79 | 129 | 215 |
| CONCERTO 425/433 | | 65 | 95 | | |
| CONTURA 425,C,CX | | 65 | 95 | | |
| CONTURA 400C,410C,420,430C | | | 69 | 95 | (185 24MG) |
| CONTURA AERO 433C | | 69 | 105 | | |
| LTE ELITE 4/25/C, 4/75/C | | 65 | 95 | | |
| LTE 5000,5100,5200,5300,540 | | 59 | 95 | 115 | 219 |
| PRESARIO 1010, 1020, 1030,1040 | 49 | | 75 | 95 | |
| PRESARIO 1060,1070,1080 | | 49 | | 75 | 95 |
| PRESARIO 1210, 1610,1680 | | | 75 | 95 | 239 |

| CTX EZ BOOK | 8M | 16M | 32M | 64M |
|---|---|---|---|---|
| CTX EZ500T | 39 | 69 | | |

| DEC PC | 4M | 8M | 16M | 32M | 64M |
|---|---|---|---|---|---|
| 425SE/433 SE COLOR | 49 | | 95 | | |
| 425SL, 433SLC PREMIUM | | 49 | | 95 | |
| HI-NOTE/HI-NOTE ULTRA | 39 | 55 | 69 | | |
| HI-NOTE VP 520/525/535/545 | | 49 | 79 | 129 | 209 |
| HI-NOTE VP CSS,LSS 575/5100/512 | 049 | 79 | 129 | 199 | |

| DELL | 4M | 8M | 16M | 32M | 64M |
|---|---|---|---|---|---|
| INSPIRON 3000 M200, M233 (NEW) | | | 75 | 119 | 229 |
| LATITUDE CP M166T,M233XT, | | | 69 | 119 | 219 |
| LATITUDE LM P100GD,P133GD | 49 | 79 | 139 | | |
| LATITUDE LX475D,4100DT 39 | | 49 | 69 | | |
| LATITUDE 433/C, CX, 425 | | | 45 | 95 | |
| LATITUDE XP 4100CX,450CD/CX29 | | 42 | 69 | | |
| LATITUDE 433M, MX, MC, | | 39 | 69 | 89 | |

| EVEREX | 8M | 16M | 32M | 64M |
|---|---|---|---|---|
| STEPNOTE 5 | 49 | 79 | 139 | |
| STEPNOTE MMX | 49 | 79 | 139 | 199 |

| EPSON | 4 M | 8 M | 16 M | 32 M | 64 M |
|---|---|---|---|---|---|
| ACTION NOTE 500C | 55 | | | | |
| ACTION NOTE 850/660C | 45 | 69 | 105 | | |
| ACTION NOTE 890CX, 890C 3S | | 49 | 85 | | |
| ACTION NOTE 895C, 910 | | 35 | 49 | 85 | |

| FUJITSU | 8M | 16M | 32M | 64M |
|---|---|---|---|---|
| LIFEBOOK 500,600,700 TX SERIES | | 75 | 119 | 229 |
| LIFEBOOK 400,500,600 SERIES | | 49 | 75 | 119 |
| MILAN MONTECARLO,MONTEGO | 49 | 75 | 119 | 209 |

| GATEWAY 2000 | 4M | 8M | 16M | 32M | 64M |
|---|---|---|---|---|---|
| COLORBOOK | | | 149 | | |
| HANDBOOK | | | 69 | | |
| LIBERTY | | 45 | 69 | | |
| NOMAD/NOMAD II | 75 | | 345 | | |
| SOLO S90,S120,V75 (NEW) | | 59 | 79 | 135 | |
| SOLO 2100, 2200 (NEW) | | 59 | 105 | 129 | |
| SOLO 2300 (NEW) | | | 75 | 119 | 229 |
| SOLO 9100 SERIES (NEW) | | | 75 | 119 | 229 |

| HEWLETT PACKARD | 8M | 16M | 32M | 64M |
|---|---|---|---|---|
| OMNIBOOK 530, 600/C | | 59 | | 149 (530 ONLY) |
| OMNIBOOK 600CT 4/75 | | 59 | 345 | |
| OMNIBOOK 800C,800 | 59 | 105 | 195 | 259 |
| OMNIBOOK 2000 | 55 | 79 | 129 | 229 |
| OMNIBOOK 3000CTX | | CALL | CALL | |
| OMNIBOOK 4000 C/CT | 65 | 89 | | |
| OMNIBOOK 5000,5500 CT,CTS | 59 | 79 | 129 | 229 |
| OMNIBOOK 5700TX (MMX) | 59 | 79 | 129 | 229 |

| HITACHI | 8M | 16M | 32M | 64M |
|---|---|---|---|---|
| C-SERIES NOTEBOOK | 49 | 79 | 119 | |
| E-SERIES NOTEBOOK | 55 | 85 | 129 | |
| M-SERIES NOTEBOOK | 55 | 95 | 129 | |
| MX MMX SERIES NOTEBOOK | 59 | 89 | 179 | |
| VISIONBOOK PLUS 4140,4150,4360 | 49 | 79 | 119 | 179 |
| VISIONBOOK PRO 7340,7360,7560 | 49 | 79 | 119 | 179 |

## IBM SPECIAL

THINKPAD 365XD, 560, 760ELD, 760XL, 760D, 770D $115

| IBM | 4M | 8M | 16M | 32M | 64M |
|---|---|---|---|---|---|
| CL57LSX | 59 | 79 | | | |
| PS/NOTE 2618 | | 55 | 75 | 125 | |
| PS/NOTE 182, N82, L40SX | 55 | 75 | | | |
| THINKPAD 340 | | 45 | 65 | | |
| THINKPAD 350, 350C | | 45 | 75 | 105 | |
| THINKPAD 355, 355C,360C/CS | 45 | 65 | 109 | | |
| THINKPAD 365C,CS,CD,E,ED | 29 | | 79 | | |
| THINKPAD 365 X,380,385D | | 49 | 75 | 115 | |
| THINKPAD 510/CS,530 8MG MAX | 45 | 55 | 109 | | |
| THINKPAD 560 (NEW) | | 49 | 75 | 115 | |
| THINKPAD 560E | | 49 | 75 | 115 | 179 |
| THINKPAD 700/C, 720/C | 49 | 79 | | | |
| THINKPAD 701 BUTTERFLY | 29 | 45 | 75 | | |
| THINKPAD 750/C/CS/P | | 45 | 69 | 129 | 225 |
| THINKPAD 755CS DX2/4 | | 55 | 69 | 129 | 225 |
| THINKPAD 760C (NEW) | | | 65 | 95 | 149 |
| THINKPAD 760 E,EL,ELD (NEW) | | 49 | 75 | 115 | 179 |
| THINKPAD 770 (SD) | | | 79 | 119 | 229 |

| MICRON | 4M | 8M | 16M | 32M | 64M |
|---|---|---|---|---|---|
| MILLENNIUM TRANSPORT | | 59 | 75 | 129 | |
| MILLENIUM TRANSPORT XPE | | | 79 | 119 | |

| MIDWEST MICRO | 4M | 8M | 16M |
|---|---|---|---|
| ELITE SNDBOOK 486/486 I I | 45 | 69 | 105 |
| ELITE SNDBOOK PLUS (PENT) | 45 | 69 | 109 |

| NEC | 4M | 8M | 16M | 32M | 64M |
|---|---|---|---|---|---|
| VERSA E/M/V/P | | 55 | 75 | 135 | |
| VERSA S, 2000, 2200C | 29 | 42 | 75 | | |
| VERSA 2400,2405,2435 | | 49 | 75 | | |
| VERSA 2600 | | 49 | 79 | 129 | 209 |
| VERSA 4000 | | 65 | 79 | 129 | |
| VERSA 6000H,6030H | | 69 | 85 | 129 | |
| VERSA 6050MH,MHX P150 MMX | | 69 | 85 | 129 | 219 |
| VERSA 6200MX P166 MMX | | 49 | 79 | 129 | 219 |

| PACKARD BELL | 2M | 8M |
|---|---|---|
| STATESMAN/STATESMAN + | 39 | 75 |

| Samsung | 4M | 8M | 16M | 32M | 64M |
|---|---|---|---|---|---|
| S3945T/SENS 700/800 | 59 | 75 | 109 | | |
| SENS 500 | | 49 | 79 | 139 | 209 |
| SENS 810 | | 75 | 105 | 129 | |

| SHARP | 4M | 8M | 16M | 32M | 64M |
|---|---|---|---|---|---|
| 3010,3050 | 29 | 42 | 75 | | |
| 3020,3060 PENTIUM | 29 | 42 | 75 | | |
| 3030, 3040, 3070 | | 59 | 89 | 129 | |
| 7700/7750/8150,8650,8660 | | 45 | 89 | | |
| 8700,8800,8900 | 45 | 69 | 105 | | |
| 9000/9030 | | 35 | 89 | 129 | |
| 9020/9050 | | 55 | 89 | 129 | |
| 9040/9070 | | 59 | 79 | 129 | |
| 9080 | | 59 | 79 | 129 | |
| WIDENOTE | | 49 | 79 | 119 | |

| SONY | 16M | 32M | 64M |
|---|---|---|---|
| VAIO PCG-705C,707C,717C,719C | 75 | 115 | 229 |

| TEXAS INSTRUMENTS | 4M | 8M | 16M | 32M | 64M |
|---|---|---|---|---|---|
| TI 4000E, 4000M | 79 | | 279 | | |
| TI 5000,5100,5200,5300 | | 79 | 89 | | |
| TI 6020,6030,6050,6160 | | | 49 | 79 | 119 |
| TI EXTENSA 455 SERIES (NEW) | 29 | | 69 | | |
| TI EXTENSA 510/515/550/560/575 | 59 | | 75 | 119 | |
| TI EXTENSA 500,650,660SERIES | | | 79 | 129 | |

## TOSHIBA SPECIAL

TOSHIBA 1060-200 DVD 610 32MB ...only $105

| TOSHIBA | 8M | 16M | 32M | 48M | 64M | 128M |
|---|---|---|---|---|---|---|
| TOSHIBA 100C/200/400/610 | 49 | 65 | 109 | | | |
| 710CD/720CDS/730/740 | 49 | 65 | 109 | | 239 | 489 |
| PROTEGE 650 CT,660 CDT | 49 | 69 | 119 | | 229 | |
| SATELLITE 225,440,460 | 49 | 69 | 119 | 169 | | |
| TECRA 500/550/650/660 | 49 | 69 | 119 | 169 | | 439 |
| TECRA 1700CS/CT (SYNC)7510 | 5 | 189 | | | | |
| T1900,1900CT,1950,1960 | | 65 | 95 | | | |
| 4500/4700/4800/4900 | | 65 | 95 | 189 | | |
| T6400/6600 | | 65 | 95 | 189 | | |
| T2100, T2150CDS/CDT | | 65 | 75 | 119 (24MG) | | |
| PROTEGE 2400/3400/3600 | | 42 | 69 | | | |

| TWINHEAD | 4M | 8M | 16M | 32M | 64M |
|---|---|---|---|---|---|
| SLIMNOTE "E" 486DX | | 49 | | 89 | |
| SLIMNOTE 5 | | 49 | 69 | 89 | |
| SLIMNOTE 6 | | 49 | 69 | 89 | |
| SLIMNOTE 8 | | | 69 | 89 | 129 |

| WINBOOK | 4M | 8M | 16M | 32M | 64M |
|---|---|---|---|---|---|
| WINBOOK XL (NEW) | | | | 69 | 149 | 249 |
| WINBOOK XP | | | | 79 | 139 | |
| WINBOOK XP 5 (NEW) | | | | | 145 | |
| WINBOOK FX (NEW) | | | 59 | 79 | 149 | |

| ZENITH | 4M | 8M | 16M | 32M | 64M |
|---|---|---|---|---|---|
| Z-STAR 433VL | | | 75 | | |
| Z-STAR EX | | 39 | | 69 | |
| Z-NOTE FLEX/ES/EX/GT | | 35 | 55 | 69 | |
| Z-NOTE MX | | 49 | | 89 | |
| Z-NOTE 6000 | | | 69 | 89 | 139 | |
| Z-NOTE 8200 | | | 49 | 79 | 139 | 209 |

## CPU UPGRADES

| INTEL | |
|---|---|
| Pentium 166 MHz | $89 |
| Pentium 200 MHz | $150 |
| Pentium 166 MHz MMX | $100 |
| Pentium 200 MHz MMX | $110 |
| Pentium 233 MHz MMX | $140 |
| Pentium II 233 MHz w/512 Cache | 209 |
| Pentium II 266 MHz w/512 Cache | 269 |
| Pentium II 300 MHz w/512 Cache | 395 |
| Pentium II 333 MHz w/512 Cache | 540 |
| AMD | |
| K6-166MHz MMX | $115 |
| K6-200MHz MMX | $109 |
| K6-233MHz MMX | $119 |

## PCMCIA Cards

| SRAM CARDS | | FLASH CARDS (ATA)/COMPACT | | | |
|---|---|---|---|---|---|
| 64K | $39 | | | | |
| 128K | 55 | 4MB | $89 | $85 | |
| 256K | 65 | 8MB | 119 | 129 | |
| 512K | 95 | 12MB | 149 | 169 | |
| 1MB | 105 | 16MB | 175 | 149 | |
| 2MB | 159 | 20MB | 209 | 339 | |
| 4MB | 309 | 40MB | 359 | | |

## Flash Memory for Digital Cameras

APPLE, CASINO ZOOMER, CHINNON, HP OMNIGO, KODAK DC'S, NIKON E2, SONY MAGILINK, ETC

## Printer Memory

| BROTHER | 1MB | 2MB | 3MB | 4MB |
|---|---|---|---|---|
| HL-8D/8E/8V | 65 | 75 | | 115 |
| HL-10V/10DV/10PS | | 69 | | 99 |
| HL-4/4PS/4V/4VE | | 75 | | 115 |
| HL-6/6T/6V | | 89 | | 89 |
| HL-630/631/641/645 | 43 | | 55(1.5MB) | |
| HL-720/730 | | | 45(1.5MB) | |
| HL-660/960/1260 | | 42(4MB) | | 65 (8MB) |
| LASER/FAX MFC 3900ML | 39 | | 55(1.5MB) | |
| FAX 4550/6550/7550(NEW) | 65 | | 85 | |

| CANON | 1MB | 2MB | 3MB | 4MB |
|---|---|---|---|---|
| LBP 430/860/1260 | | | | 59 |
| LBP 453 | | 75 | | 115 |
| LBP 811/8 | | 45 | | 65 |
| LBP 85X | | 79 | | 115 |
| LBP 4/7, 7E PLUS | 95 | 139 | | |

| EPSON | | | | |
|---|---|---|---|---|
| ACTION LASER 1000,1000 | 1MB | 2MB | 4MB | 5MB |
| 5000,5200 | | 59 | | |
| ACTION LASER II | | 69 | 85 | |
| EPL 6000 | | 85 | 115 | 105 |
| EPL 7000 | | 69 | | |

| EPSON | 4MB | 8MB | 16MB | 32MB |
|---|---|---|---|---|
| 1100-XVB ONLY/1600 | 99 | 55 | 69 | 95 |

| HEWLETT PACKARD | 8MB | 16MB | 32MB |
|---|---|---|---|
| HP 4000/5000N NEW | | 59 | 355 |

| HP | 2MB | 4MB | 8MB | 16MB |
|---|---|---|---|---|
| HP 4, 4M, 4SI | 29 | 49 | 59 | |
| HP 4 (postscript 2MB) | 99 | | | |
| HP 4P, 4MP, HP4V,5M,5N,5P,5SX | | | 29 | 55 |
| HP4L, ML (LMEG ONLY) | $39 | | | |
| HP 5L,5C,5S | 35 | 43 | 69 | |
| HP550,C,560,C (256K ONLY) | $29 | | | |
| HPMVIP | 45 | 65 | | |
| HPMVIP/IIP | 45 | 65 | | |
| PAINTJET XL300 | | 65 | 85 | |

| IBM | 1MB | 2MB | 3.5MB | 4MB |
|---|---|---|---|---|
| 4019 | 39 | 69 | 89 | |
| 4039/4037 | 99 | 99 | | 555 |
| 4039/4076 | | | | 45 |

| LEXMARK | 4MB | 8MB | 16MB | 32MB |
|---|---|---|---|---|
| OPTRA/L,S,X/M/FORX | 10 | 25 | 45 | 69 |
| WW WRITER 200, 400, 600 | 89 | | | |
| VALUEWRITER | 89 | | | |

| OKIDATA | 1MB | 2MB | 4MB |
|---|---|---|---|
| OKI 400 | 52 | | |
| OKI 400E/410E | 69 | 109 | |
| OKI 600E/610E (NEW) | 79 | 85 (5MG) | 149 (17MG) |
| OKI 810/830/840/850 | 79 | CALL | |
| OKI 810E (NEW) | | 79 | |

| Panasonic | 2MB | 4MB | 8MB |
|---|---|---|---|
| KX 4410/4430 | 35 | 79 | |
| KX 4420/4450 | 49 | 85 | |
| KX 4400/5400/4401 | 49 | 79 | |
| KX 4440/5410 | 69 | 99 | |
| KX-P 4450 | 85 (1MB) | | |
| SP100 | 49 | 95 | |
| KX-4500 (NEW) | | 95 | |

| SHARP | 1MB | 1.5MB | 2MB | 4MB |
|---|---|---|---|---|
| JX9500/9/H/9700H | | 129 | 159 | |
| JX9400/9600/9700E/9700E | | | 85 | 95 |

| TEXAS INSTRUMENTS | 1MB | 2MB | 3MB | 4MB |
|---|---|---|---|---|
| MICROLASER SERIES | 39 | 78 | 117 | 156 |
| MICROLASER TURBO | 39 | 78 | | 86 |
| MICROWRITER SERIES | 45 | 75 | | |
| MI PWRPRO/12,MI PROP,MI,800 | 55 (4MB) | 95 (8MB) | | |

## Peripherals

### IDE HARD DRIVES

**MAXTOR DRIVES**

| | | | |
|---|---|---|---|
| Maxtor Diamondmax 82560D3 | 2.5GB | 10ms | $151 |
| Maxtor Diamondmax 84320D5 | 4.3GB | 10ms | $172 |
| Maxtor Diamondmax 85259D6 | 5.2GB | 10ms | $198 |
| Maxtor Diamondmax 85120A | 5.1GB | 10ms | $189 |
| Maxtor Diamondmax 864801 | 6.4GB | 9.7ms | $229 |
| Maxtor Diamondmax 88400D8 | 8.4GB | 10ms | $303 |
| Maxtor Diamondmax 91152D8 | 11.5GB | 9ms | $440 |

**QUANTUM DRIVES**

| | | | |
|---|---|---|---|
| Quantum Fireball ST3240A | 3.2GB | 10ms | $165 |
| Quantum Bigfoot CY5435A | 4.3GB | 14ms | $163 |
| Quantum SE6480A | 6.4GB | 10ms | $227 |
| Quantum SE8400A | 8.4GB | 9.5ms | $309 |

**SEAGATE DRIVES**

| | | | |
|---|---|---|---|
| Seagate ST32122A | 2.1GB | 12ms | $135 |
| Seagate ST33232A | 3.2GB | 11ms | $150 |
| Seagate ST34342A | 4.3GB | 11ms | $175 |

**WESTERN DIGITAL DRIVES**

| | | | |
|---|---|---|---|
| Western Digital AC22500 | 2.5GB | 12ms | $145 |
| Western Digital AC33200 | 3.2GB | 12ms | $165 |
| Western Digital AC34300 | 4.3GB | 11ms | $185 |
| Western Digital AC35100 | 5.1GB | 11ms | $215 |
| Western Digital AC36400 | 6.4GB | 9.5ms | $239 |

### SCSI HARD DRIVES

**QUANTUM DRIVES**

| | | | | |
|---|---|---|---|---|
| Quantum ALS4550S | U/S3 | 4.5GB | 8ms | $415 |
| Quantum Fireball ST4320S | U/S3 | 4.3GB | 10ms | $305 |
| Quantum Atlas II Vk4550S | U/S3 | 4.5GB | 8ms | $375 |
| Quantum AL39100S | U/S3 | 9.1GB | 8ms | $772 |

**SEAGATE DRIVES**

| | | | | |
|---|---|---|---|---|
| Seagate Barracuda ST34572N | U/S3 | 4.5GB | 8/9ms | $545 |
| Seagate Barracuda ST19171N | U/S3 | 9.1GB | 8/9ms | $795 |

**WESTERN DIGITAL DRIVES**

| | | | | |
|---|---|---|---|---|
| Western Digital E4360-3 | U/S3 | 4.3GB | 8ms | $455 |

### WIDE SCSI HARD DRIVES

**QUANTUM DRIVES**

| | | | | |
|---|---|---|---|---|
| Quantum Atlas 4L34550SW | UW/S3 | 4.5GB | 8ms | $349 |
| Quantum Atlas 4L39100SW | UW/S3 | 9.1GB | 8ms | $729 |

**SEAGATE DRIVES**

| | | | | |
|---|---|---|---|---|
| Seagate Barracuda ST34572W | UW/S3 | 4.5GB | 8/9ms | $580 |

*continued from page 138*

tions. Soon after such products come to market, I expect to see printer and network adapters as well as adapters for wireless phones and mobile computers already on the market.

Bluetooth offers a universal solution to what has been a perplexing connectivity problem, and I expect to see wide adoption of this technology. It is being packaged for the OEM as a certified module at a low cost—I think that it is a "no-brainer" when it comes to deciding whether to build the technology into new products.

## A Look At Bluetooth

The Bluetooth wireless technology will use one of the available unlicensed, yet virtually worldwide radio bands—2.4 GHz—and it can support both voice and data. Everything needed to be Bluetooth-capable will be contained in a module that will cost between $15 and $20 at first. Driven by volume, the cost should drop to about $5 by 2001.

The low-power radio module can and will be built into mobile computers, mobile phones, printers, fax machines, and network connection points. While its primary focus is to be the wireless connection between mobile computers and/or between computers and wireless network devices such as cellular phones, Bluetooth supports data speeds of up to 721 Kbps (including a 56 Kbps back channel) as well as three voice channels.

The Bluetooth design is a collaborative effort between communications and computing companies. Ericsson and Nokia independently were working on similar radio concepts. They understood the need for a partner on the computer side; each approached Intel with the idea. Intel quickly grasped the importance of the concept and has been instrumental in driving the concept to reality. The initial group working on Bluetooth also includes IBM, Toshiba, Motorola, and Palm (3Com).

Because of the close collaboration and input from both industries in the final design, Bluetooth will provide flexibility that reaches beyond simply being a replacement for wire.

Bluetooth has been designed to operate in a multi-user environment. Devices can be enabled to communicate with each other by the computer or communications device end user. Up to eight users or devices can make up a piconet, and ten piconets can co-exist in the same coverage range. Since each link is encoded and protected against both eavesdropping and interference, Bluetooth can be considered a secure short-range wireless network.

## Conclusions

I am really excited about this technology and what it will mean to mobile computing and communications. To me, Bluetooth represents a no-brainer concept at a reasonable price. I believe that any computer vendor building mobile devices should embrace this concept and these products—immediately if not sooner!

The same goes for mobile phone, wireless modem, and network adapter vendors. While it might take a while for this module to show up in smaller phones, most can certainly accommodate the module when it comes to size and current drain. As the number of Bluetooth devices on the market increases, prices for the module will continue to come down to a point where it is comparable to building in IrDA-compliant infrared, which is a common practice today.

I also believe that printer, fax, and other accessory device vendors will be quick to hop on the Bluetooth bandwagon. Imagine being able to print without cables or aiming an infrared beam. Imagine walking into your office and putting your briefcase down and having the notebook computer inside it automatically sense that it is in range of your desktop and initiate the exchange of data to update both systems.

Of course, the primary advantage to this system is that computer vendors *can build it in.* They don't have to worry about choosing a wide-area network to support, or stocking an assortment of modules for several networks. And their engineers need only minimize interference for *one* radio on *one* frequency band! Further, enabling their computers for wireless data communications will not require a PC Card slot or option bay cavity—these will remain available for other uses.

Bluetooth has been designed to solve a number of connectivity problems experienced by mobile workers and consumers. And it does so in a simple, neat package that is inexpensive—the OEM only pays for the cost of the module. The system is available royalty and license free.

Bluetooth was well conceived, and I believe that it will be well received. I will certainly encourage all of my clients to make Bluetooth a part of their strategy as they move forward. My only disappointment is that I have to wait until mid-1999 before I can have a Bluetooth-enabled set of mobile computing and communications devices. ◆

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### Table 1: Bluetooth Specifications*

| | |
|---|---|
| Frequency Band: | 2.4 GHz (unlicensed ISM Band) |
| Transmitter Power: | 1 milliWatt (0 dBm) |
| Technology: | Spread Spectrum<br>Hybrid Direct sequence and frequency hopping |
| Maximum Voice Channels: | 3 per piconet |
| Maximum Data Channels: | 7 per piconet |
| Data Speed: | 721 Kbps per piconet |
| Expected System Range: | 10 meters (40 feet) |
| Number of Devices Supported: | 8 per piconet, 10 piconets in coverage area[1] |
| Security: | Yes, link layer |
| Power Requirement: | 2.7 volts |
| Power Consumption: | 30 uA sleep, 60 uA hold,<br>300 uA standby<br>8-30 mA transmitting |
| Module Size: | 0.5 square inches |
| Interference: | Bluetooth minimizes potential interference by employing fast frequency hopping—1600 times a second. |

* Features currently planned are subject to change without any notice. Actual features may vary.

[1] Graceful degradation of the symbol rate for more than 10 piconets in a given coverage area.

# The Wireless PowerBook

## Plus: Speeding Up Your Mac's Browser

By Peter Linde and Sam Penrose

This month, Peter will talk about his experiences with Metricom's Ricochet wireless modems, and Sam will follow up his recent column on the speed of Macs as Web clients.

### World Without Wires

***By Peter Linde***

Three peripherals have fundamentally altered the way I use my computer.

The first was my original ImageWriter II printer. At last, I was able to take what was on the screen and spit it out into the real world.

The second was my first 2400 baud modem. No longer was I limited by my 40 Meg hard drive. BBSes, the Internet, Shareware, Freeware, viruses—they were all there for me to discover.

The third peripheral, the one that's most radically altered how I use my computer, is my Ricochet wireless modem.

A Ricochet modem connects to my computer just like a normal modem. I can make a PPP connection to the Internet, just like with a real modem. I can do just about anything with it that I would do with a normal modem.

But unlike a normal modem, the Ricochet never needs a phone line in order for me to connect. It connects to its own proprietary network of radio transmitters spread all over the Bay Area and a growing list of other cities.

Point your browser to *www.ricochet.net/coverage/* for an almost up-to-date list of their coverage areas. I say "almost up-to-date" for two reasons: The coverage areas seem to grow daily, and I've found cities with service that are not even mentioned on their site. For example, I've used my Ricochet in West Los Angeles, which, as far as I can tell, is fully covered, yet not mentioned anywhere on the Ricochet site.

### It Must Be Expensive!

You might assume that any kind of wireless modem would be expensive to operate. Ricochets cost only about thirty bucks a month for as much connect time as you can use. In fact, the company all but encourages you to stay connected full-time!

They can afford this because the system uses a "packet radio" network. In English, this means that your modem only uses up bandwidth during the moments that it is sending or receiving data. The rest of the time, it just sits there using no resources (other than battery power).

### How Fast is It?

This is a tad complex to answer. Metricom, Ricochet's parent company, claims that the modems operate at about 28.8Kbps, but I frequently achieve much higher throughput. I also, at times, connect at a much lower rate. Both the nature of the system (packet radio) and your proximity to one of their repeaters can affect your connection speed. The actual speed that each packet transmits at is much faster than a 28.8 modem; however, the time between packets, known as the latency, can bring the effective speed of the modem down. Depending on the quality of your connection, this latency can be negligible or it can make your Ricochet act like a 300 baud modem, or even worse. In general, the company's conservative claim is a good average to count on.

Ricochet is in the process of upgrading to a new, high-speed network which they claim will achieve speeds up to 128Kbps. The only bad news about this is that the modem you buy today won't be compatible with that system—thus you will need to buy a new one to take advantage of the speed gain.

### It's About Lifestyle

The real benefits of the Ricochet modem have little to do with the technical issues. It really comes down to a matter of lifestyle and how this little modem can alter yours.

Most people who access the Internet have to plan their access in advance. Even if you are a road warrior with a PowerBook and a regular modem, you must still pick the time in your day when you can find a phone line and dial in to the Net. Now, as long as you move within the Ricochet's ever-expanding network, you simply whip out your computer and modem and connect. I have checked my mail from my car, from the top of a mountain, from most of my clients' offices, from cafes, etc. But even within my home, I don't have to think about going in a certain room to check mail.

Miles Hurwitz, BMUG board member and Ricochet user, says, "Even at home, I can choose the living room or the kitchen, without thinking about it. It allows me to multi-task. I can watch bad TV while pulling down email and I don't have to feel guilty about wasting time. It's freeing!"

### Is It Safe?

My mom would be mad at me if I didn't mention the safety issues involved with RF (radio frequency) devices.

**Depending on the quality of your connection, access may be quite speedy or reminiscent of a 300 baud modem.**

While studies are inconclusive about the possible health effects of long-term exposure to RF fields, it's always wise to be cautious. The Ricochet Web site has a brief discussion about this, but mostly they just talk about being far below all government limits for fields generated by their devices.

In general, a Ricochet is similar to a 900 MHz cordless phone. My advice is to try to work so that the antenna isn't resting against your body. The modem comes with Velcro strips so that you can attach it to the lid of your computer. This is the perfect place, as it keeps the antenna off your lap, and raises it as high as is practical for optimal connection.

### Living In A World Without Wires

Whereas just a few years ago they were scarce, almost all of us now use one wireless device or another. Pagers, cell phones, cordless phones, infrared ports and key chains that can turn our car alarms on and off are now just facts of life. The Ricochet wireless modem brings this convenience to your computing environment.

Although it is a great product right now, I look forward to their faster network and wider coverage area.

Please send comments or questions to *pbl@lindegroup.com* or *MicroTimes_Column @bmug.org* . Thanks!

## Macs As Web Clients, Part II

***By Sam Penrose***

Two months ago (see *www.microtimes.com/179/bmug.html#sam*), I reported that many users found Macs slower Web clients than comparable Windows machines. It was not possible to nail down the dimensions or causes of the problem, but some potential solutions have been identified in Apple's plans and in email from *MicroTimes* readers.

**Ever since Web browsers first appeared on the Mac, memory management has been cited as key to getting the best user experience.**

First, the bad news. Apple does not intend to replace the outdated underpinnings of Mac OS with a modern kernel until late in 1999. That solution, Mac OS X ("Ten"), may not run on Macs prior to the current G3 line. If the outdated code base is responsible for the problem, older Macs are stuck with it.

Now the good news: Web performance on all Macs can be improved with some inexpensive changes. For those with larger budgets, the newest Macs offer excellent performance even without a modern OS.

### A Consensus Emerges

Ever since Web browsers first appeared on the Mac, memory management has been cited as key to getting the best user experience. One trick involves creating a RAM disk to hold the browser's cache, preventing slower hard drive access.

Memory management surfaced again in a response from reader Bob Peterson. He lists several ways to improve performance, some of them contrary to conventional wisdom. They include turning off virtual memory, increasing the Finder's disk cache to 5MB (both via the Memory Control Panel), and increasing the browser's RAM partition to 16MB for Internet Explorer and 32MB for Netscape Navigator. (To change an application's RAM partition, select its icon in the Finder, choose Get Info, and adjust the "preferred size" field.)


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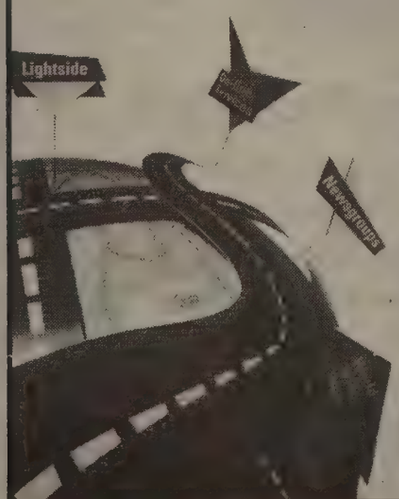


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Testing on a new PowerBook G3/233 and a four year old Power Mac 7100/66 seemed to support Peterson's claims: Pages loaded faster on both machines. On the G3 the difference was especially dramatic, probably because the gap between hard drive and processor speed is larger. These results cannot be taken as proof (particularly of the precise values Peterson reports), but reconfiguring your machines for an experiment takes only a few moments if you have the RAM. If you don't have the RAM, most types now cost just over $1/MB.

### Try a Faster Mac

The brute force solution to Web performance is to buy a new Mac. The G3s (including the iMac) are twice as fast as the models they replaced and nearly 10 times faster than the original Power Macs. They appeal because details become irrelevant: given enough RAM, they'll overwhelm most OS bottlenecks.

If you aren't ready to get a new machine, Connectix' SpeedDoubler, a faster graphics card, or a faster hard drive should all boost performance.

### A Naughty Hack

BMUG Executive Director Hal Gibson suggests hacking Netscape Navigator by increasing the portion of its RAM partition devoted to caching recently visited pages to make them reload faster. While a less comprehensive solution that those mentioned above, this hack involves messing around with parts of your computer that sober software vendors would prefer you leave alone—just the spirit we like to encourage (when appropriate) at BMUG!

The brute force solution to Web performance is to buy a new Mac.

Do not attempt this unless you have backed everything up and have time to recover from any damage you may cause to your files. You'll need a utility that can change file type and creator.

- Make sure Navigator is not running.
- Copy the Netscape Preferences file. Move the original someplace safe.
- Change the copy's type and creator to "TEXT" and "txt."
- Open it with SimpleText. (You'll note the first line says "Don't modify this file!")
- Add a line (towards the top; you'll see similar lines) that reads, precisely: "user_pref ("browser.cache.memory_cache_size", 4096)"
- Save the file. Restore its type and creator to "pref" and "MOSS".
- Increase Navigator's RAM partition by 4096K

If you didn't understand any of these instructions, don't try this. If you forget the semicolon or add a space, bad things may happen. If you adjust any other settings inside of Navigator, it will rewrite the file, probably erasing your hack.

Thanks to all those mentioned, as well as to a reader who did not respond to my request for permission to quote him. Feedback welcome at *MicroTimes_Column@bmug.org* . ◆

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| Matsonic MBP5575S | TX Pro | AT | 3 | 4 | 3 | 4 | 0 | AMI | 16-Bit 3D Wave | $59 |
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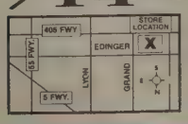


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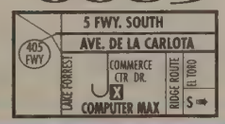


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# Pac Bell Rolls Out ADSL

## *Fast Net Access—If You're In A Served Area*

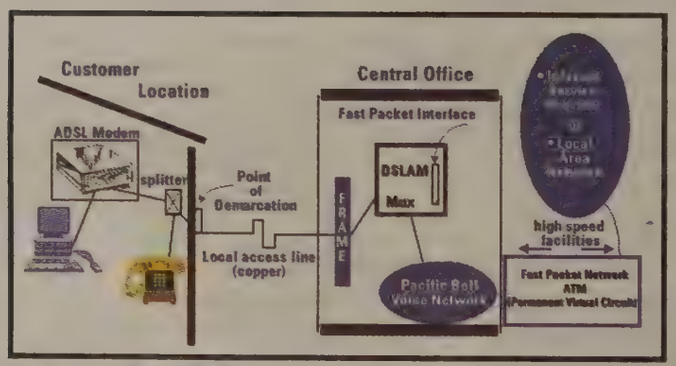
*By Bill Gram-Reefer*

*ADSL enables businesses of all sizes to work smarter, and home Internet users to surf faster.*

Pacific Bell announced it will begin broad deployment of high-speed Asymmetrical Digital Subscriber Line (ADSL) service in more than 200 communities across California to satisfy customer demand for bandwidth and faster Internet access.

Designed primarily for Internet and telecommuting applications, ADSL enables businesses of all sizes to work smarter, and home Internet users to surf faster. Packaged with Internet service, ADSL promises online consumers and small businesses faster access to the World Wide Web. ADSL also enables telecommuting employees to connect to their employers' corporate networks via dedicated, secure links.

Following a market trial of ADSL last fall in select areas, Pacific Bell plans to initially deploy ADSL in 87 central offices, serving all or part of more than 200 communities throughout the state. By the end of the summer, cities such as San Jose, San Francisco, Oakland, Anaheim, Los Angeles, San Diego, and Sacramento will have Pacific Bell ADSL service. According to Pac Bell, the ADSL-equipped central offices currently will serve about 4.4 million households and 650,000 business customers.




A diagram of how ADSL works

ADSL provides secure, dedicated links to corporate networks and the Internet at transmission speeds of up to 1.5 megabits per second (Mbps)—50 times faster than 28.8 kilobits per second (Kbps) modem speeds. By comparison, it would take a 28.8 Kbps modem 41 minutes to download a short video clip (72 Mbps) that could be downloaded in 48 seconds using ADSL technology. It is also a high-speed, always-on, direct Internet access solution that enables users to download data, graphics, audio and video files over existing telephone lines while simultaneously using a phone or fax machine.

### FasTrak DSL

Marketed as Pacific Bell FasTrak DSL, the setup requires a compatible ADSL modem at your home or remote location. Initially, these modems will be provided by Alcatel. The ADSL modem is connected to your PC or Macintosh computer by either an Ethernet or an ATM25 Network Interface Card (NIC). A device called a splitter is the interface between your ADSL modem and the copper phone lines at your home or office. Pacific Bell will work with customers to coordinate orders, hooking up to your LAN or Internet service provider, as well as delivery and installation of your FasTrak DSL line and equipment, including your ADSL modem and splitter.

The minimum computer requirements for FasTrak DSL are:

- 486 or better PC (Pentium recommended) with Windows 3.1, 3.11, '95 or better
- Macintosh 68030 or better running System 7.0 or better
- Windows NT workstation and server
- UNIX workstation (e.g. Sun and HP)
- a minimum of 8MB RAM and 25MB available hard disk space

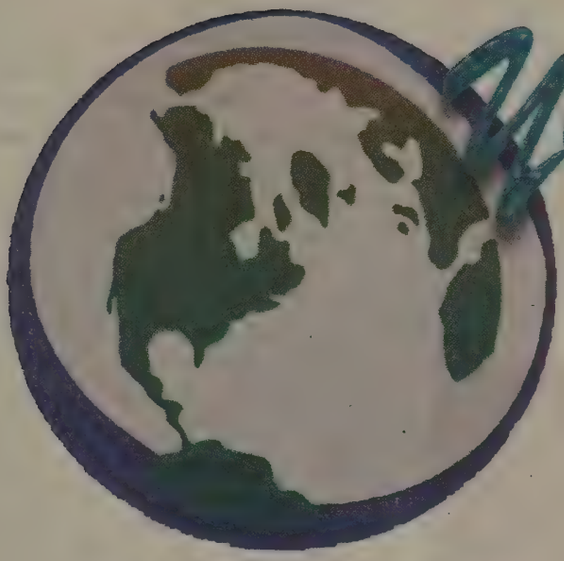
plus a Network InterfaceCard (NIC) in the personal computer.

FasTrak DSL requires no new phone connections as it delivers high-speed data access over your existing POTS (plain old telephone service) line, allowing you to use your voice line while maintaining your high-speed data connection.

You must be qualified to ensure that your access line meets FasTrak DSL specifications, which include a maximum distance from your Pacific Bell central office of 2–3 miles. Pacific Bell will check your line for you in advance of ordering FasTrak DSL. To deliver megabit speed over standard phone lines, your corporate LAN or Internet service provider will need to be connected to the Pacific Bell ATM network.

### Package Options

Three ADSL offerings will be available from the company following a rubber stamp PUC regulatory approval process:



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The Home Pack DSL includes the ADSL connection plus Internet service, and is designed for high-volume home Internet users. Home Pack provides transport speeds starting at 384 kilobits per second (Kbps) downstream and 128 Kbps upstream. Total monthly price for home Internet access package starts at $89, including $59 ADSL connection and $30 dedicated Internet service from Pacific Bell Internet Services.

The Internet Access Pack DSL also includes the ADSL connection and Internet service, and is designed to meet the higher-speed Internet access needs of all businesses. Internet Access Pack includes two speed options: up to 384 Kbps downstream and 384 Kbps upstream to meet the needs of small office/home office (SOHO) and small businesses requiring Internet access. Total monthly price for this business Internet package starts at $199, including $99 ADSL connection and $100 dedicated Internet service from Pacific Bell Internet Services.

Alternatively, you could select up to 1.5 megabits per second (Mbps) downstream and 384 Kbps upstream if you require more bandwidth, as in the case of medium and large businesses where many employees share a single Internet connection. Total monthly price for the business Internet package for small offices starts at $339, including $189 ADSL connection and $150 dedicated Internet service from Pacific Bell Internet Services.

Office Pack DSL includes the ADSL service only and is designed to meet the dedicated and secure remote access needs of large business customers. Office Pack includes two speed options: up to 1.5 Mbps downstream and 384 Kbps upstream. Total monthly price for a high-speed corporate network connection is $189 for up to 384 Kbps downstream and 384 Kbps upstream. Total monthly price for high-speed corporate network connection is $99 without the IP service.

Additional charges may apply for purchases of customer premise equipment and network integration services.

The actual throughput rate that a customer obtains may depend on the associated ISP network, the Internet, or some corporate LAN, among other things. Pacific Bell promises to make every attempt to connect the customer's service at the option speed they choose. However, Pac Bell's DSL service is provided with a best-effort (Unspecified Bit Rate) Quality of Service on the ATM backbone, and as such, does not guarantee a specific constant throughput rate.

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## ADSL Availability

Alphabetical listing of Central Offices where Pac Bell will begin to install ADSL this summer:

| | | |
|---|---|---|
| Alameda | Garden Grove | Pleasanton |
| Albany | Glendale | Redwood City |
| Alhambra | Hayward | Sacramento (4) |
| Anaheim (2) | Hollywood | Reseda |
| Arcadia | Irvine | San Bruno |
| Berkeley | La Crescenta | San Carlos |
| Beverly Hills | La Jolla | San Diego |
| Burbank | La Mesa | San Francisco (5) |
| Burlingame | Laguna Niguel | San Gabriel |
| Canoga Park | Livermore | San Jose (5) |
| Colma | Los Altos | San Mateo |
| Compton | Los Angeles (5) | San Ramon |
| Concord | Milpitas | Santa Ana (2) |
| Costa Mesa | Mountain View | Santa Clara (2) |
| Culver City | National City | Sherman Oaks |
| Danville (2) | Newport Beach | Simi Valley |
| El Toro | Northridge | Sunnyvale |
| Escondido | North Hollywood | Tustin |
| Fair Oaks | Oakland (3) | Van Nuys |
| Fremont (2) | Palo Alto (2) | Ventura (2) |
| Fullerton | Pasadena | Walnut Creek |

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| | |
|---|---|
| Full T1 | $995.00 /mo.<br>**Free Set up** |
| 128 Kbps | 1.54 Mbps Port Speed<br>$395.00 /mo.<br>$495.00 Set up |
| 256 Kbps | 1.54 Mbps Port Speed<br>$495.00 /mo.<br>$595.00 Set up |
| 384 Kbps | 1.54 Mbps Port Speed<br>$595.00 /mo.<br>$695.00 Set up |

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9600/200MP 32/4GB, 12xCD ..... $1777

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2x2x6 CD-R W ... $399
32x CD-ROM ..... $69

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56KX2 Ext. MAC ... $139
US Robotics 56K V.90 Ext. MAC ... $155

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MS Office 97 Pro PC $349
MS Excel 97 PC ... $159
MS Word 98 MAC $159
MS Word 97 PC ... $149
MS Windows NT 4.0 $479
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QuarkXpress 4 ... $685
Freehand 8 ..... $239
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## Selective Access, Or, Who Gets ADSL?

In the beginning, Pac Bell believes that 70–75% of customers out of a given central office will qualify for the service. Additionally, the evolution of the network technology eventually will allow Pac Bell to decide how much it is worth to reach the small percentage of customers who are on the most distant ends of local networks or live in places like Clear Lake, Novato, or Barstow.

And that brings up an interesting issue. There are lots of towns not on the list for conversion. There are also lots of Central Offices left off the list, even though a community is mentioned on Pac Bell's list of locales that will receive high-speed service. While Concord is included, for instance, only the central office out on Clayton Road will be converted this summer, beginning in July. According to a Pac Bell representative I talked to, the central office located downtown isn't scheduled for conversion until 1999.

This means only the businesses, residences and SOHOs located in Concord's more well-to-do areas will be able to take advantage of faster Internet connections. Because the central office downtown is not being converted, city offices, all of the businesses located along the Willow Pass corridor (including the Gateway complex), and residences located on the western side of Concord will get short shrift.

***FasTrak DSL requires no new phone connections as it delivers high-speed data access over your existing POTS (plain old telephone service) line.***

Maybe Pac Bell doesn't think there's any profit in offering ADSL in those areas. So just do the areas with higher household incomes.

Do you call this "cherry-picking" or "redlining?" Either way, I find it discriminatory behavior by a public utility, as it skims the cream off the top instead of serving all of its customers equally. While in theory this allows the telcos to bootstrap future development by serving the more revenue-producing markets first, in reality it is more designed to make entry into the market by competitors prohibitive.

Historically the Baby Bells have argued that new competitors will come into the market and use the telco's infrastructure to cherry-pick the best customers, while the PUC holds the regulated utilities to serving the entire area with lifeline service, etc. But now, as they've successfully stonewalled competition, they can further discourage competing CLECs from colocating equipment in COs serving those lower-income areas by staking out the more lucrative areas themselves, creating a situation where some people, based on where they can afford to live, are de facto more equal than others. ◆

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### xDSL Primer

DSL stands for high-speed Digital Subscriber Line. It provides a dedicated digital circuit from your home to the telephone company's central office, using normal, copper telephone line. DSL also provides a separate channel for voice phone conversations, which means analog calls (voice, fax, etc.) can be carried at the same time high-speed data is flowing across the line. xDSL is a generic term that includes several variations:

**ADSL** (Asymmetric Digital Subscriber Line)—1.5 Mbps/64 Kbps–384 Kbps.
**HDSL** (High-Bit-rate Digital Subscriber Line)—1.5 Mbps/1.5 Mbps.
**SDSL** (Single-Line Digital Subscriber Line—1.5 Mbps/1.5 Mbps.
**VDSL** (Very High-Data-Rate Digital Subscriber Line)—13 Mbps–52 Mbps/1.5 Mbps–2.3 Mbps.
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|---|---|---|---|
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| Disk Storage (MB)[3] | 20 | 50 | 100 |
| Number of E-mail Accounts | 5 | 5 | 10 |
| E-mail Forwarding Addresses | 10 | 10 | 20 |
| E-mail Auto-Responders | 10 | 10 | 20 |
| Multiple T3 Connections | YES | YES | YES |
| Unlimited FTP Updates | YES | YES | YES |
| FrontPage™ Extensions | YES | YES | YES |
| Detailed Daily Web Statistics | YES | YES | YES |
| Access to Raw Log Files | YES | YES | YES |
| Your Own cgi-bin Directory | YES | YES | YES |
| mSQL Database Support | YES | YES | YES |
| SSL Secure Server Support[4] | YES | YES | YES |
| CyberCash™ Support[5] | YES | YES | YES |

**Technical Footnotes:** **1.** All plans have a one time setup fee of $25. All accounts also require a domain name registration fee of $50. InterNIC (the governing agency in the U.S.) will charge a registration fee of $70 for your domain name, keeping it in force for 2 years. Thereafter InterNIC will bill you $35/year for your domain name. **2.** Additional data transfer is billed at $5/100MB per month. **3.** Additional disk space is available in blocks of 5 MB for $5/month. **4.** Secure Server Support has a one time setup fee of $25. Registration with a Certificate Authority like VeriSign is also required. VeriSign charges $395 for setup and 1 year use of a secure key; $295 for subsequent years. **5.** CyberCash Support has a one time setup fee of $25.

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# Consumer Privacy On The Web

## *The FTC Reports On What Industry Is Doing—Or Not Doing—To Ensure Privacy Online*

*By Michael Robin*

There is rarely an enforcement mechanism to ensure widespread adoption of online privacy guidelines.

In June 1998, the Federal Trade Commission released *Privacy Online: A Report to Congress*, its assessment of the effectiveness of the online industry's self-regulation as a means of protecting consumer privacy on the Web. The report concluded that "industry's efforts to encourage voluntary adoption of the most basic fair information practices have fallen short of what is needed to protect consumers." In other words, consumers have little privacy protection on the Net.

For the past three years the Federal Trade Commission (FTC) has been examining the personal privacy and consumer protection issues raised by the collection and use of information about online consumers. Throughout this period, the FTC has maintained that industry self-regulation is the preferred approach for protecting consumer privacy online, basing its position on the belief that in the changing environment of the Web, the online industry can adapt its practices more quickly without government sponsored regulations.

According to David Medine, FTC Associate Director for Credit Practices, consumers have less confidence in the way online service providers and merchants handle personal information then they have in offline institutions, such as hospitals and banks. The result of inadequate or insufficient privacy protections is that people will simply not bring their business into the digital marketplace.

### E-Commerce, Privacy, And The FTC

The FTC was established to "promote the efficient functioning of the marketplace by protecting consumers from unfair or deceptive acts or practices and increasing consumer choice by promoting vigorous competition." While regulations specifically governing Internet commerce do not currently exist, e-commerce does fall within the broad scope of the FTC's mandate.

The digital economy's rapid growth is one of the defining characteristics of the mid-1990s. The Web, in particular, offers easy access to goods, services, and information that can be delivered instantaneously to your computer or overnight on your doorstep.

At the same time new technologies have fostered the growth of e-commerce, they also offer new ways to collect and use information about individuals online. This is not simply the information that a Web site or online business requests, such as name, address, occupation, and social security number, but a detailed record of your activities online—your browsing patterns (both of products and on Web sites), the goods you purchase, and even comments you post in online discussion forums—all unbeknownst to you. Once personal information is collected to complete a transaction or as part of a registration process, a company may decide to use it for additional marketing purposes or sell it to another company for uses completely unrelated to the original purpose the information was exchanged.

### The Status Of Information Practices

As background for this report, the FTC solicited and received nine industry-specific guidelines concerning online privacy from the Direct Marketing Association, The Bankers Industry Secretariat, Electronic Messaging Association, Interactive Services Association, Magazine Publishers of America, Council of Better Business Bureaus, and the National Association of Federal Credit Unions.

The FTC found that the guidelines generally "encouraged companies to provide notice of at least some of their information practices, and most encourage choice with respect to the disclosure of personal information to third parties." However, most of the guidelines do not address access or security, or provide for enforcement mechanisms. In addition, there is rarely an enforcement mechanism to ensure widespread adoption of online privacy guidelines.

Next, the FTC Report outlined a set of five widely accepted principles of privacy protection seen as essential to ensure that the collection, use, and dissemination of personal information

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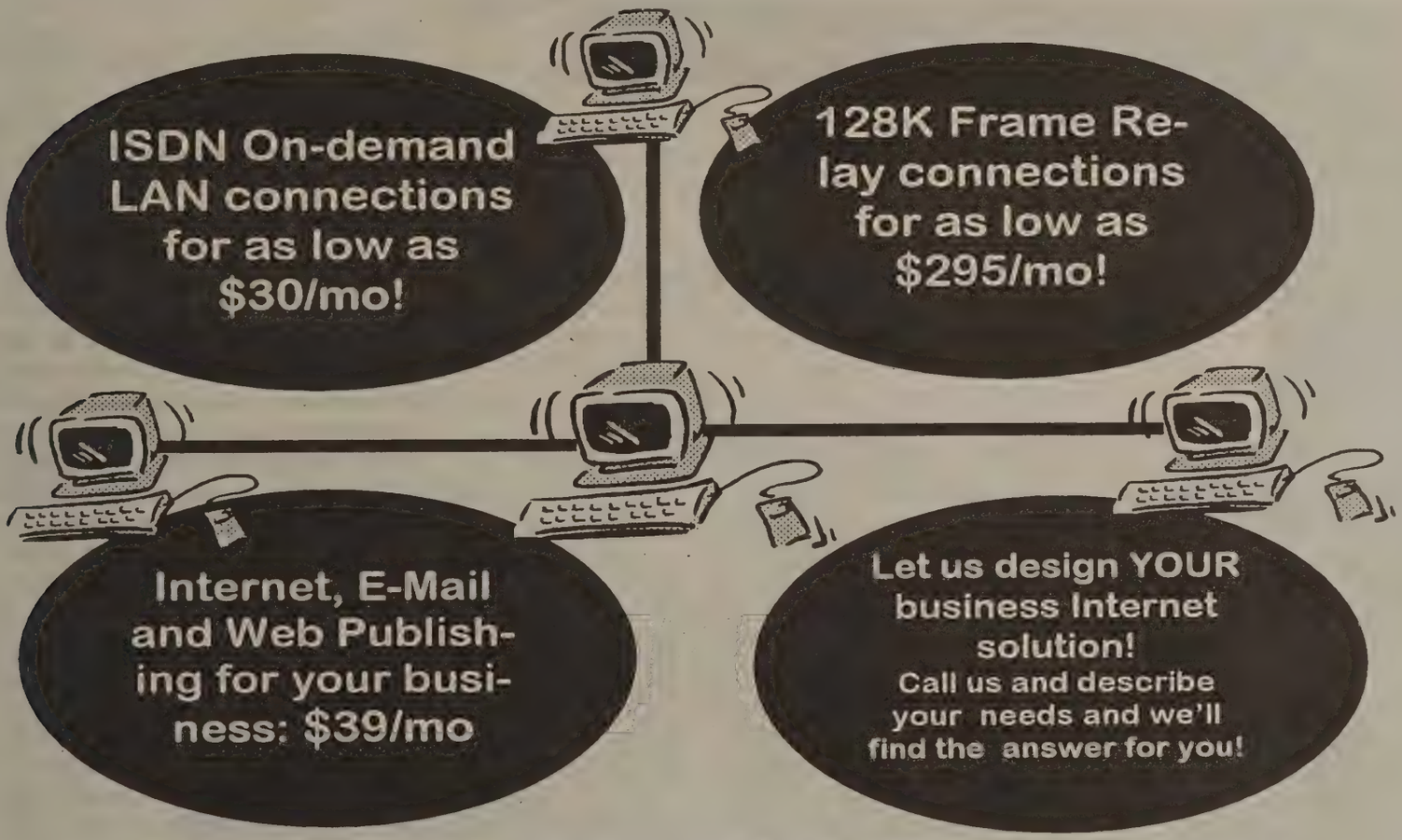
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are performed fairly and in a manner consistent with privacy interests of online consumers: notice, choice, access, security, and enforcement.

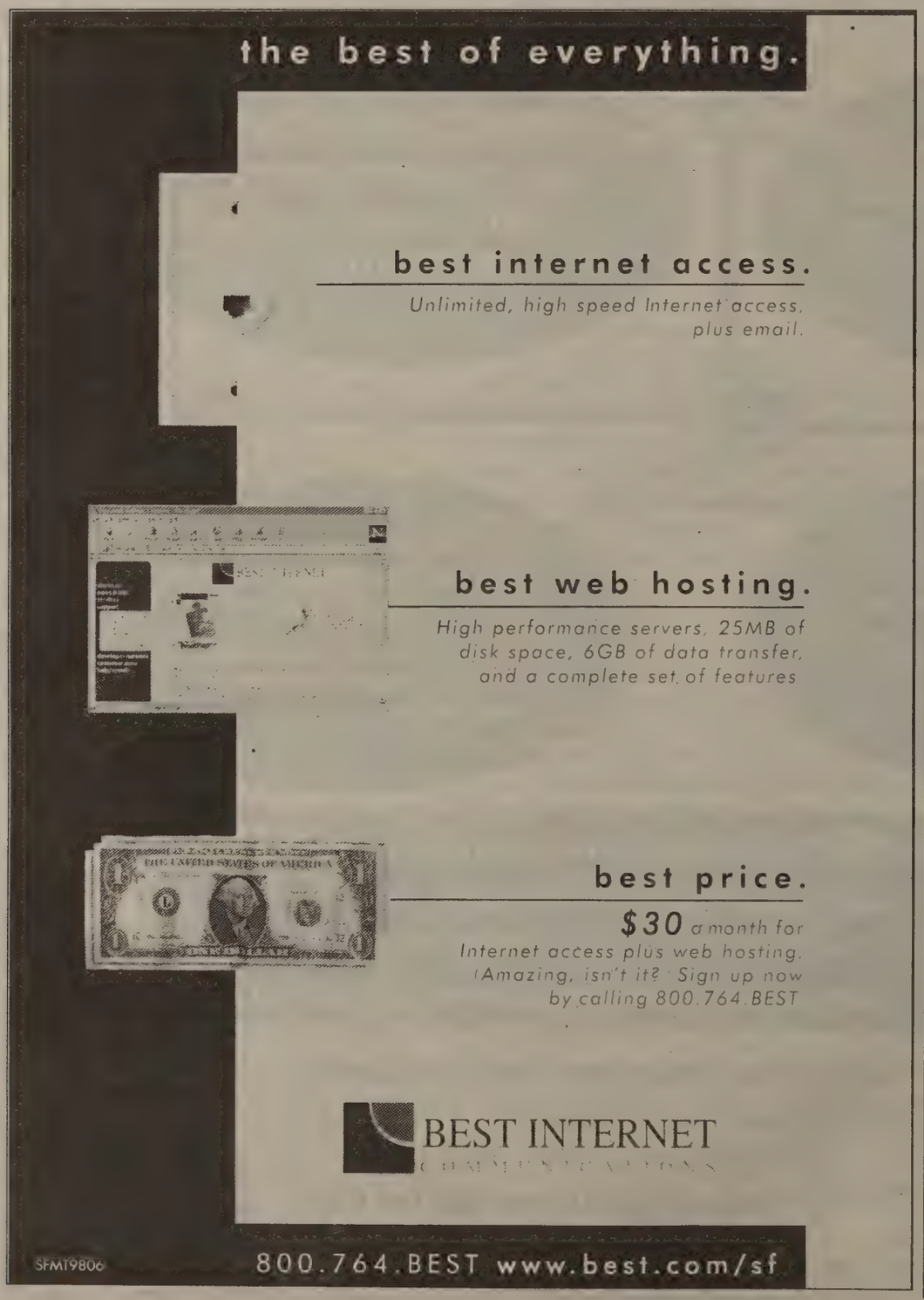
• Consumers should be given notice of an organization's information policies and practices before any personal information is collected from them. Without notice, consumers cannot make an informed decision before disclosing personal information.

• Choice addresses the secondary use of information beyond those necessary to complete a particular transaction. Secondary uses range from receiving additional marketing information from that company to the transfer or sale of your information to third parties.

• Access refers to individuals' ability to access data about them and to contest the accuracy and completeness of that information.

• Security involves both managerial and technical measures to protect against loss and the unauthorized access or use of the data.

• Privacy protection policies can only be effective and foster trust if there is an enforcement and redress mechanism in place.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### The Findings Online

With these information privacy principles and industry guidelines as background, the FTC surveyed 1400 commercial US-based Web sites in March 1998. The sample was divided into six categories: (1) commercial sites likely to be of interest to consumers; (2) health sites; (3) retail sites; (4) financial sites; (5) commercial sites primarily directed at children aged fifteen and younger; and (6) popular commercial sites. The report found:

"Industry's efforts to encourage voluntary adoption of the most basic fair information practices have fallen short of what is needed to protect consumers."

• **Commercial Web Sites:** 92% of these sites collect personal information. Only 14% provide any notice of their information practices and only 2% have a comprehensive privacy policy.

• **Health:** 88% collect personal information while only 14% disclose their information practices.

• **Retail:** 87% collect personal information while only 13% disclose their information practices.

• **Financial:** 97% collect personal information while only 16% disclose their information practices.

• **Children's Sites:** 89% of these sites in the survey collect personal information from children while only 14% provide some form of disclosure of their information practices. In addition, only 23% tell children to seek parental permission before they provide information to the site.

• **Popular Commercial Sites**: 97% collect personal information. 71% of all the sites in this category have some type of information practice disclosure and 73% of the sites that collect personal information have such a disclosure.

Several interesting points are absent from the statistical results or the Executive Summary of the Report.

For this survey, any Web site that collected email addresses—the overwhelming majority—was categorized as collecting personal information. Most people are probably significantly less

worried by Web sites recording their email address than information such as one's mailing address, phone number, income, or Social Security number.

A full reading of the Report shows that the percentages of sites collecting at least one other type of personal information falls to 66% (still relatively high). The percentages also shift when counting information other than email addresses. For example, 68% of the sites collected names and 54% phone numbers, but only 26% collected fax numbers, 8% age, and 5% income levels.

The other observation easily missed in the Report concerns the higher disclosure rate found in the "Popular Commercial Sites." The higher rates may be partly attributable to these companies greater awareness of online privacy issues. A more likely cause is the fact that, of all the sites the FTC surveyed, only companies in this category were on notice that their sites would be examined.

Perhaps the better question here is not "Why do they have higher disclosure rates?" Rather, we should be asking, "Why did over one-quarter of the sites still fail to post an information practice disclosure when they knew the government would be examining their site?"

## Next Steps

The Web provides an expanding range of opportunities for new and existing businesses to offer and deliver goods and services. While businesses have always sought to gather information from individuals to complete transactions, or in hopes of offering additional services, the Internet allows for the efficient, inexpensive collection of a vast amount of information from and about consumers as well as the greater analysis of this information. It is the ease and lower cost of collecting information that distinguishes the e-commerce from traditional business activities and information collection, and thus raises consumer concerns regarding privacy protection.

The federal government, largely through the Federal Trade Commission, has limited authority over the collection and use of personal information gathered online. The FTC is authorized to seek "injunctive and other equitable relief, including redress," for unfair and deceptive business practices. However, the FTC cannot require businesses to adopt information practice policies.

After three years of supporting industry self-regulation to address consumers' privacy concerns, the FTC's Report to Congress shows that the online industry has not established an effective self-regulatory system. The Report states: "The vast majority of online businesses have yet to adopt even the most fundamental fair information practices (notice). Moreover, the trade association guidelines submitted to the Commission do not reflect acceptance of the basic fair information practice principles."

Given the findings that the majority of commercial Web sites do not notify individuals of their information practices and policies, and the absence of adequate industry guidelines, the Report asks "what additional incentives are required in order to encourage effective self-regulatory efforts by industry?" Later this summer, the FTC is expected to make recommendations on actions to protect online consumers. ◆

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## AOL's Eight Privacy Principles

Following the release of the FTC's *Report to Congress on Privacy Online*, industry organizations as well as individual companies have launched renewed efforts to develop online privacy guidelines and to implement self-regulation.

One June 22, for example, AOL CEO Steve Case announced AOL's *Eight Privacy Principles*, upon which its strengthened privacy policy is based. As the biggest Internet consumer access and services provider, Case said, "To build a global interactive medium that is as central to people's lives as the television or telephone, we will first have to win the full trust and confidence of consumers that their private information will stay private."

In addition, AOL is encouraging all companies who do any business with AOL on the Web to post their own privacy policies.

**Privacy Principles:**

**1.** We do not read your private online communications.

**2.** We do not use any information about where you personally go on AOL or the Web, and we do not give it out to others.

**3.** We do not give out your telephone number, credit card information or screen names, unless you authorize us to do so. And we give you the opportunity to correct your personal contact and billing information at any time.

**4.** We may use information about the kinds of products you buy from AOL to make other marketing offers to you, unless you tell us not to. We do not give out this purchase data to others.

**5.** We give you choices about how AOL uses your personal information.

**6.** We take extra steps to protect the safety and privacy of children.

**7.** We use secure technology, privacy protection controls and restrictions on employee access in order to safeguard your personal information.

**8.** We will keep you informed, clearly and prominently, about what we do with your personal information, and we will advise you if we change our policy.

*—Michael Robin*

## FTC's How To Protect Your Privacy Web Site

The FTC has created a new "How To Protect Your Privacy" Web site (*www.ftc.gov/privacy/index.html*). Organizations to which you provide information—companies, marketers, the government—may use information about you for more than the specific task it was collected. They may use it to inform you of additional products and services, or they may share your information with others. In the traditional, offline business world, more organizations are beginning to offer people choices about how their information is used.

This FTC Web sites is a valuable resource for learning more about the choices you have to protect your personal information and how to contact credit bureaus, Departments of Motor Vehicles, and direct marketers to opt-out (request to be excluded) from various marketing campaigns.

• **Credit Bureaus:** the three major credit bureaus (Equifax, Experian, and Trans Union) have different requirements on how to opt-out. This site provides links directly to the privacy policy statements of these credit bureaus as well as sample opt-out letters to request that your personal information not be used for promotional purposes or shared with others.

• **Department of Motor Vehicles:** A new federal law gives you privacy rights with regard to information maintained by DMVs. The law lists the ways this information can be used—i.e., shared with law enforcement, insurance underwriting, etc. But it gives you the right to opt-out of having the DMV distribute your personal information for other types of uses, such as direct marketing.

• **Direct Marketers:** The Direct Marketing Association (DMA) offers the Mail and Telephone Preference Services, which allow you to opt-out of direct marketing and/or telemarketing from member companies. The DMA's Web address and physical address are provided, as well as opt-out forms that can be downloaded and mailed to the DMA.

*—Michael Robin*

# Free Email On The Web

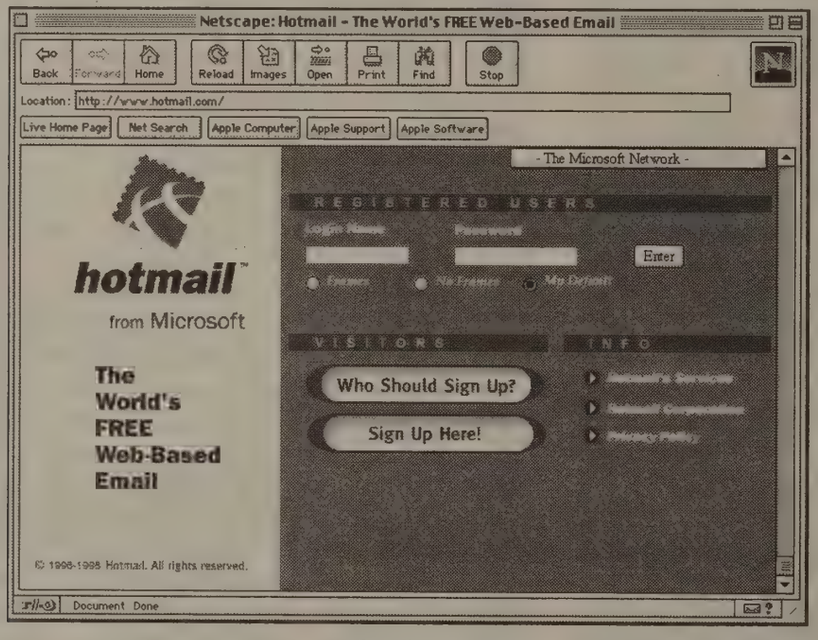
## *A Bargain At Twice The Price!*

*By Kevin M. Savetz*

*The big boys like Yahoo, HotMail, and GeoCities are tried and true, but there's nothing wrong with using any of the smaller services—as long as they're reliable, protect your privacy, and provide the services you need.*

Those of us with electronic mail know just what a wonderful tool it can be. The Net is home to numerous free services that can make a good thing even better: by providing you with an elegant email address, multiple mailboxes, increased privacy, and easy access to your mail from any computer on the Internet. For people with access to the Net but no email address, these services can mean the difference between life with mail and life without.

There are many different free email services on the Internet: perhaps a dozen or so "big name" ones such as HotMail, Yahoo Mail, and GeoCities, plus countless smaller services. The big boys are




tried and true, but there's nothing wrong with using any of the smaller services—as long as they're reliable, protect your privacy, and provide the services you need.

### Service Types

There are three distinct ways that these services can get your email to you: using a Web interface, with a POP account, or via mail forwarding. Some services offer just one of these delivery options; some offer all three.

With a Web interface, you can read and send email using your trusty Web browser. To use this type of system, all you need is access to a browser: the service provides a Web interface that lets you read and send mail. This is very flexible: you can access your email from anywhere you can log in to the Internet. It doesn't require an email address at your ISP—but if you do have one, remember that your Web-based mail account is totally separate from your ISP mail. This makes Web-based mail useful in a number of situations: you can keep personal email off of the servers at your workplace; you can create multiple accounts for your kids so they stay out of your mail; or you might create a mailbox just for your mailing list subscriptions.

Another type of email account is the POP account. POP, which stands for Post Office Protocol, allows you to receive email using just about any standard email program, such as Eudora or Outlook Express, or even with one of those cool palm-held computers. Like the Web interface option, POP mail doesn't require you to have another email address, but it does mean you have to install an email client on your computer. And like the Web interface option, POP accounts provide a measure of privacy.

Power users will find that using an email client provides more features than doing email through a Web interface can—but with POP, it's not as simple to check your mail from just anywhere.

The final type of free email account is mail forwarding. Mail forwarding services only work if you already have an email address. Forwarding gives you a new email address that, when you receive a message, punts it to your other address. Why would you want to do this? Because *bob@iname.com* is a whole lot easier to remember (and prettier on your business card) than *74774.2725@compuserve.com* .

Also, mail forwarding provides a modicum of privacy: have your John Tesh fan club mail sent to an address that doesn't reveal your identity to other subscribers.

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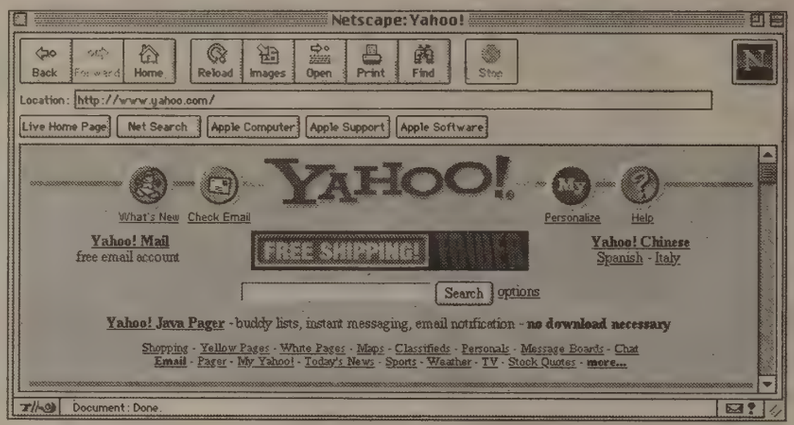
Mail forwarding services let you receive mail at a special address, but don't necessarily allow you to send it from that address (some services do provide a Web interface for that).

Which type of account is best for you? If you already have email but hate your address, mail forwarding is an easy solution. If you don't have email at all, or want additional mailboxes, go with Web-based mail or a POP account. Web-based mail is simpler and accessible from any Web browser, but POP mail can be sweeter for power users.




*For people with access to the Net but no email address, these services can mean the difference between life with mail and life without.*

## Finding A Service

How do you find a free mail service? Point your web browser to one of these indices.

The Free Email Address Directory (*www.emailaddresses.com*) is a well-organized index of dozens of them, sorted by the type of service: Web-based mail, POP and forwarding. In addition, it lists a myriad of services that work in languages other than English.

Another fantastic index is The Guide to Free Email Accounts (*www.geocities.com/SiliconValley/Vista/8015/free.html*). It lists more than 200 services worldwide, and also sorts by the type of service.

For instant gratification, try one of these popular services:

HotMail (*www.hotmail.com*), Yahoo Mail (*http://mail.yahoo.com*) or ZDNET Mail (*www.zdnemail.com*).

You can get more bang for your buck (well, not even a buck—they're free!) with GeoCities, which offers Web page space along with email (*www.geocities.com*); and My DejaNews, which offers a nifty Usenet reader plus Web-based mail (*www.dejanews.com/rg_reg.xp*). ◆

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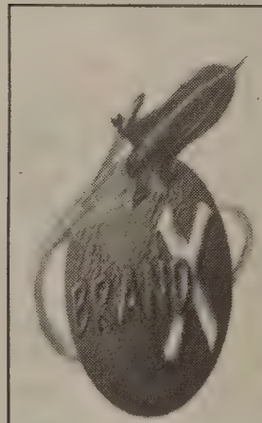

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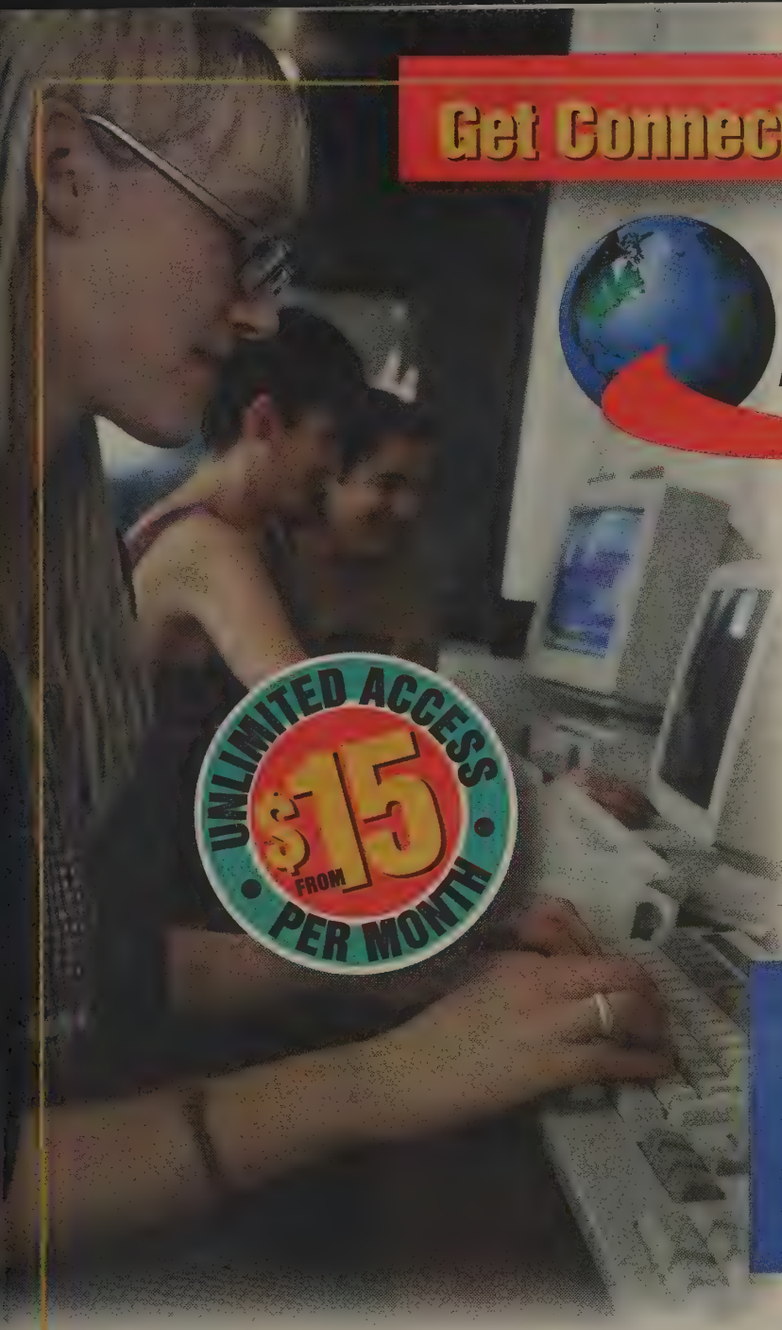


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# Optimizing Email

## *Getting More Effective Use From Your Mail Program*

*By Michael Dillon*

The great surge in the use of PDAs like the PalmPilot, the growing use of NCs and the trend towards Web-based email means that more people have no way of dealing with attached word processing files.

Since the early days of the Internet, mailing lists have been an important communications tool. Much of what we now take for granted in terms of the design of Internet protocols and applications was first accomplished by small working groups—who communicated with each other by means of a mailing list.

Nowadays, most of us probably maintain an address book in our email client software, and have set up one or two nicknames with a distribution list of several email addresses. But this sort of list is limited in that everybody has to set up their own copy of the list in their own addressbook; any changes must somehow be propagated to all users. This is inefficient, and will inevitably lead to confusion where some people are not on everyone's distribution lists.

The solution developed by early Internet users was to set up a central listserver that managed the list of addresses. To send a message to all the list members, you would address it to the machine running the listserver. The message would be received by an email robot that would distribute one copy to each list member. In addition, the robot would take care of various housekeeping duties, like adding new members to the mailing list. Generally, housekeeping messages will be sent to a different email address than messages intended for distribution to list members.

### Listservers

For example, let's look at a hypothetical list named *microtimes@example.com*. This address would be used for any messages that you want to have distributed to all list recipients.

If this list was being managed by Majordomo, you would send housekeeping messages to *majordomo@example.com*. If it was being managed by LISTSERV, housekeeping messages would go to *listserv@example.com*. In most cases the list manager will also set up an address of the form *microtimes-request@example.com* that you could also use for housekeeping messages, such as a request to be added to the list.

If you've never been a member of an Internet mailing list, you may want to go to *www.findmail.com* and browse through the archives of a list that covers a topic you're interested in. They don't have every public mailing list archived there, but they do have a good assortment. Or have a look at the comprehensive catalog of mailing lists at *www.liszt.com* and join one of the many existing mailing lists. You will find that in many cases you are joining a community of individuals with similar interests to yourself who are willing to take some time to help you out with problems when you get stuck. Of course, lists are not just for problem solving. They are also good for reviewing products you are thinking of purchasing, for learning experiences, and for making friends. The best lists are an amalgam of all these things.

Within a corporate environment, mailing lists can be a useful tool. They can be used to assemble virtual project teams that communicate with one another via an internal mailing list. The list allows project team members to easily have discussions that are public within the team, yet are not accessible to other employees. Other lists could be used by the senior executives or by all marketing department employees. Once you have the technology deployed within your company, you can start using it to broaden communications outside the company with key partners.

As long as you are using list servers that work with Internet standards, it is easy to incorporate your suppliers or your customers into a mailing list. Unfortunately, the same cannot be said of the typical corporate email systems, for which Internet standards are an afterthought add-on, often in the form of an Internet gateway. However, if your company uses such an email system, all is not lost. You can still install a program like LISTSERV from *www.lsoft.com* or Majordomo from *www.greatcircle.com/majordomo/*, as long as you can get email into and out of the machine running the listserver using Internet standards.

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This package includes:
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- TEAC 1.44 MB Floppy Drive
- 6.4 GB Hard Drive
- Toshiba 32x IDE CD-ROM
- Vibra 16 IDE Sound Card
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## Enhanced Possibilities

When you consider the fact that every email message to the group passes through the central list server, a number of interesting things become possible.

The most obvious is that you can maintain an archive of all postings to the mailing list, so that new list members can easily find out what has gone before and what the current topics of conversation are. This is especially useful if the archive is placed in a Web-accessible format and the URL is included in the welcome message sent to all new list members.

Another common facility provided by list servers is the digest. Instead of sending out a dozen or more messages throughout the day, the listserver builds a message digest and sends it out at the end of the day. Most listservers have some way of indicating that you prefer the digest format of the list rather than the multi-message format.

## Attachments: The Bane Of Email

For a few short years it appeared as though the desktop PC, complete with word processing program, would reign as the business tool of the 21st century. As a result, lots of people habitually write their email in a word processing program and send the attached document as the entire content of their email messages.

> Within a corporate environment, mailing lists can be used to assemble virtual project teams that communicate with one another via an internal mailing list.

It is now obvious that the word processor's day is past. The great surge in the use of PDAs like the PalmPilot, the growing use of NCs and the trend towards Web-based email means that more and more people have no way of dealing with attached word processing files.

If you're setting up mailing list servers, you might want to have an email robot examine all incoming messages and reject those that contain attached documents or HTML instead of plain text. You will find that this streamlines communication for all list members, especially the ones whose messages get rejected. They are often unaware that they're sending a message that nobody can read, especially since email client software from major software companies can be so complex to configure that they are doing this unintentionally.

Often the solution to this problem is to sign up for an account with one of the free Web-based email services, such as Yahoo *http://mail.yahoo.com/ymHelp.html* or Altavista *http://altavista.iname.com/* and use this account for mailing list email. ◆

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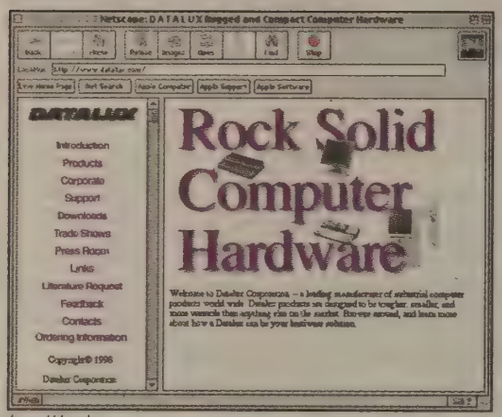


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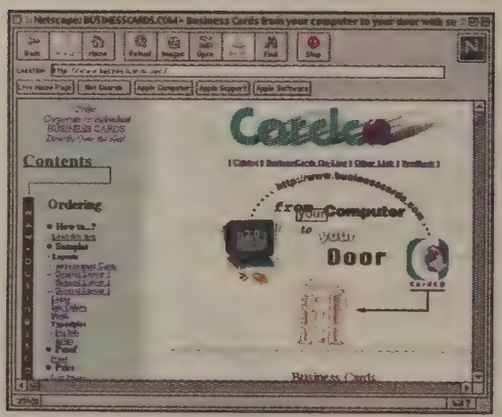


http://www.businesscards.com

http://www.rrhassociates.com/

## Computer Products & Services

**Act-Rite Computers** *http://www.act-rite.com* Santa Clara computer store. [Exp. #183.]

**Aesthetic Solutions** *http://www.aesthetic.com* Create dynamic 3D worlds in minutes using our virtual reality authoring tools—free demo available! [Exp. #182.]

**CCH, Inc.** *http://www.toolkit.cch.com* CCH Business Owner's Toolkit is a portfolio of information and software tools designed to help small business owners and home office entrepreneurs start, run, and grow their businesses. [Exp. #181.]

**CompuForms** *http://www.compuforms.com/index.htm* [Exp. #183.]

**Computer Integration Specialists** *http://www.getcis.com/* Serving the Washington DC metropolitan area, we offer superior service at affordable prices. [Exp. #183.]

**Computer System Solutions** *http://www.comput.com* IBM-compatible systems. High-quality, competitive prices. Warranty and support included. Since 1989. [Exp. #181.]

**Datalux Corporation** *http://datalux.com* Rugged and compact computer hardware. [Exp. #183.]

**Digital Auction** *http://www.digital-auction.com* A new online auction for PC systems, hardware, and computer upgrades. [Exp. #181.]

**Disk-Go-Tech Computers** *http://www.disk-go-tech.com/* A computer store. [Exp. #183.]

**ExecUtron Development Corp.** *http://www.executron.com/* Developers of inventory control, POS, and accounting software. [Exp. #183.]

**Follgard Group Inc.** *http://www.follgard.com/* A hi-tech, multimedia, communications, and marketing company, specializing in CD-ROM, Web site, e-commerce, telephony, and software development. [Exp. #181.]

**IP-3 Software** *http://www.ip-3.com/* Programas de Ingenieria Civil. [Exp. #183.]

**JC Enterprises** *http://www.jcenter.com/* Business computers and related products. [Exp. #182.]

**JEM Computers** *http://www.jemcomputers.com* Since 1992, JEM has been known for selling top-notch refurbished and manufacturer's excess inventory for 25% to 45% below retail. [Exp. #181.]

**MacShareware.com** *http://www.macshareware.com/* The site currently hosts shareware games and commercial demos. A complete custom database is being built to host the complete realm of Macintosh shareware. [Exp. #182.]

**Match Software Fonts** *http://www.matchfonts.com* Online font catalog for Windows, Mac, and OS/2. [Exp. #181.]

**micro2000** *http://www.micro2000.com* [Exp. #181.]

**Mind Of The Machine** *http://www.mindofmachine.com/* Custom software company. [Exp. #182.]

**Mivatec Plotters** *http://www.mivatec.com* Photo plotters and laser plotters. [Exp. #183.]

**PCSDirect Software Superstore** *http://pcsinternet.com/office/eric* Over 40,000 software titles of the latest and best software the industry has to offer. [Exp. #181.]

**Polaris PackRat Professional** *http://www.polarissoftware.com* A powerful, customizable desktop information management system. [Exp. #181.]

**Scitec Laboratory Automation** *http://www.scitec-automation.ch/* Robotics automation, laboratory devices, and scheduling software. [Exp. #183.]

**VTechSoft, Inc.** *http://www.vtechsoft.com* [Exp. #181.]

**Zone 5 Imaging** *http://www.upline.co.uk/Zone5/index.htm* Digital imaging, design, and screen savers. [Exp. #183.]

## Web/Internet Services

**A+ACY-D Internet Consulting** *http://www.adinternetc.com* Localized Internet presence, Web site development, e-commerce solution, online marketing. [Exp. #181.]

**Absolute Magic Computers/Internet** *http://www.absolutemagic.com* Affordable Web site design and maintenance, computer and network consulting. Ten years in Orange County. [Exp. #181.]

**AceWeb Network** *http://www.aceweb.net* [Exp. #181.]

**Advice And Design** *http://www.aadsgn.com/index.html* Internet advice and Web design. [Exp. #183.]

**AlcanSeek** *http://www.alcanseek.com* Search engine and directory of Alaska and Canada Web sites. [Exp. #183.]

**Association Of Support Professionals** *http://www.asponline.com* ASP announced the selection of the top ten Web-based customer support sites. [Exp. #182.]

**Bannerhood** *http://www.thebannerhood.com/* We create very clickable Web banners. [Exp. #183.]

**Bargain Seeker** *http://www.bargainseeker.com* A search engine for discount goods sold over the Internet. [Exp. #182.]

**Birds Eye** *http://www.birdseye.com* World's largest online recipe database. [Exp. #182.]

**CatchTheWeb** *http://www.catchtheweb.com* allows users to capture any Web page or series of Web pages, annotate and organize them, and arrange them into a presentation viewable in any JavaScript-capable browser. [Exp. #181.]

**Cogetec Informatique Inc.** *http://www.cogetec.com/* Web services, systems integration, and software consulting. [Exp. #183.]

**CommTechs, Inc.** *http://www.commtechs.com/* Computer, communications, and Internet consulting. [Exp. #183.]

**Cuenet** *http://www.cuenet.com* Listservs, email, WWW, domain hosting, site development, and complete outsourcing. [Exp. #181.]

**Customised.com Ltd.** *http://www.customised.com/* Web business information and advisory services. [Exp. #183.]

**DatabaseDesigns** *http://dbwebdesigns.com/* Web design/hosting, online contact manager, and database design. [Exp. #183.]

**DBServe** *http://www.DBServe.net* Database, commerce, online transaction, and streaming media (RealAudio/Video, NetShow) hosting for corporate clients. [Exp. #182.]

**EdgeWorld** *http://www.edgeworld.com* Wanna Web site? Affordable design and marketing. Hosting for under $5/month. [Exp. #183.]

**The Editors Advertising Agency** *http://www.theeditors.com/* 20-year old full service ad agency specializing in Web page design, advertising, marketing, graphic design, and print collateral. [Exp. #181.]

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## Pentium II Ultima

- Intel Pentium™ II 440BX AGP with Built-in 512K Cache
- 64MB PC-100 SDRAM (Expandable to 768MB)
- 8.4GB Ultra DMA IDE Hard Drive
- ATI Xpert @Work 8MB SGRAM AGP (MPEG 30fps, CDi, AVI)
- 17" Mag DX700T .25mm, 1280x1024, Non-Interlaced.
- 2 Serial Ports, 2 USB Ports, 1 Parallel Port & 1 Game Port
- 1.44MB Teac Floppy Drive
- Microsoft Keyboard and Microsoft Mouse
- Creative PC-DVD x2 DVD CDROM Drive (2nd generation)
- Creative Dxr2 Decoder MPEG-2 Card
- Sound Blaster 64 PCI Sound Card
- Grolier Encyclopedia 1998
- 350 Watt Hi-Fi Surround Sound Stereo Speakers
- ATX form factor Mid Tower Case (7 Bays & 230W UL PS)
- 56K v.90 Diamond-Supra Internal Fax/Modem w/Voice Mail
- MS Windows 98 CD and Manual

| | |
|---|---|
| Pentium II 300MMX | $1699 |
| Pentium II 333MMX | $1799 |
| Pentium II 350MMX | $1899 |
| Pentium II 400MMX | $2099 |

## Pipeline Ultima

- Intel Pentium™ II 440BX AGP with Built-in 512K Cache
- 64MB PC-100 SDRAM (Expandable to 768MB)
- 6.4GB Ultra DMA IDE Hard Drive
- ATI Xpert @Work 8MB SGRAM AGP (MPEG 30fps, CDi, AVI)
- 17" Mag DX700T .25mm, 1280x1024, Non-Interlaced.
- 2 Serial Ports, 2 USB Ports, 1 Parallel Port & 1 Game Port
- 1.44MB Teac Floppy Drive
- Microsoft Keyboard and Microsoft Mouse
- 36X EIDE CDROM Drive
- Sound Blaster 64 PCI Sound Card
- Grolier Encyclopedia 1998
- 350 Watt Hi-Fi Surround Sound Stereo Speakers
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- 56K v.90 Diamond-Supra Internal Fax/Modem w/Voice Mail
- MS Windows 98 CD and Manual

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| Pentium II 266MMX | $1349 |
| Pentium II 300MMX | $1449 |
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## Pipeline Media Pro

- Intel Pentium™ II 440BX AGP with Built-in 512K Cache
- 64MB SDRAM (Expandable to 768MB)
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- 2 Serial Ports, 2 USB Ports, 1 Parallel Port & 1 Game Port
- 1.44MB Teac Floppy Drive
- 104 Key Windows 95 Keyboard and Mouse
- 36X EIDE CDROM Drive
- Sound Blaster PCI Ensoniq Sound Card
- Grolier Encyclopedia 1998
- 280 Watt Hi-Fi Surround Sound Stereo Speakers
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- MS Windows 98 CD and Manual

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|---|---|
| Pentium II 266MMX | $1099 |
| Pentium II 300MMX | $1199 |
| Pentium II 333MMX | $1299 |
| Pentium II 350MMX | $1399 |
| Pentium II 400MMX | $1599 |

## Pipeline Best Buy

- Intel Pentium™ II 440LX or BX AGP with Built-in 512K Cache
- 32MB RAM with 512K Pipeline or Internal Built-in Cache
- 4.3GB Ultra DMA IDE Hard Drive
- ATI 3D Charger 4MB RAM (PCI or AGP)
- 15" SVGA monitor .28mm, 1280x1024, Non-Interlaced.
- 2 Serial Ports, 1 Parallel Port & 1 Game Port
- 1.44MB Teac Floppy Drive
- 104 Keys Windows 95 Keyboard and Mouse
- 36X EIDE CDROM Drive
- ESS 32bit Wave Sound Card
- Grolier Encyclopedia 1998
- 280 Watt Hi-Fi Surround Sound Stereo Speakers
- ATX form factor Mid Tower Case (7 Bays & 230W UL PS)
- 56K v.90 Diamond-Supra Internal Fax/Modem w/Voice Mail
- MS Windows 98 CD and Manual

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| Pentium II 266MMX | $ 899 |
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| Pentium II 333MMX | $1099 |
| Pentium II 350MMX | $1229 |
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**$1699** *Business Lease only $65/mo.*

## 266MHz PII

ATX Case w/P.S.
PII M/B w/ Intel LX Chipset
64MB Fast SDRAM
4.3GB UltraDMA HD
1.44MB Floppy Drive
32X CD-ROM
3D PnP Stereo Sound Card
4MB AGP 2X Video Card
56K Internal Fax/Modem w/Voice v.90
17" Digital Monitor/.28dp v.i.s. 15.9"
***2 Year Parts & Labor Warranty***

**$1299** *Business Lease only $47/mo.*

## 3D Star

AMD K6 300 3D MHz
64MB SDRAM/PC100
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3D PnP Stereo Sound Card
4MB AGP/2MB PCI Video Card
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***2 Year Parts & Labor Warranty***

**$1199** *Business Lease only $36/mo.*

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**E. G. H. Corporation** *http://www.eghcorporation.com* E-commerce catalogs, hosting, and Web site design. [Exp. #182.]

**Free Money Making Web Site** *http://www.Waimea-Bay.com* Earn up to $1,000 per week. Be on the Web today. [Exp. #181.]

**Globalynk Internet Solutions, Inc.** *http://www.globalzynk.com/* National Internet Service Provider. [Exp. #183.]

**Greater Light Online Worldwide** *http://www.greaterlight.com* If you live in the Concord, Antioch, Pittsburg, Oakley, Brentwood, Knightson or nearby communities in Northern California, you can have Internet and Web access for only $12 per month via local numbers. [Exp. #183.]

**Home Business Network** *http://www.hbn.com/* Offering services, business opportunities, and advice for computer/mail order professionals and others working from their home. [Exp. #182.]

**I-Swift** *http://members.aol.com/Iswift2* Web design and development. [Exp. #183.]

**Internet Payment System** *http://web2070.com/* [Exp. #183.]

**Internet Traffic Report** *http://www.internettrafficreport.com* A Web site that tracks Internet traffic in real-time. [Exp. #182.]

**IT Network** *http://www.itnetwork.co.uk/* Internet TV and multimedia data storage information service. [Exp. #181.]

**Nu Age Media** *http://www.nuagemedia.com* Web site development. [Exp. #181.]

**Octadrive Productions** *http://www.octadrive.com* [Exp. #181.]

**PeachPod** *http://www.peachpod.com/* The Internet just for kids. [Exp. #183.]

**Reflexive Networks, Inc.** *http://www.reflexive.com/* Building Web-based i-commerce networks. [Exp. #183.]

**SinaSearch** *http://www.sinanet.com* The world's first complete Chinese/English search engine. [Exp. #181.]

**Siris.com** *http://www.siris.com/* Multimedia, communication, and Web design. [Exp. #181.]

**Surfaway** *http://surfaway.com/* Internet services, marketing, and Web hosting. [Exp. #183.]

**TagGen** *http://www.hisoftware.com/taggen.htm* TagGen makes your Web site presentable to search engine Web crawlers by generating appropriate meta tags. [Exp. #181.]

**The-Best-Of.com** *http://www.the-best-of.com* Users can vote for your business and win prizes. Business Web pages for $15/month. [Exp. #181.]

**uBid Online Auction** *http://www.ubid.com* Selling over 10,000 items each month. [Exp. #183.]

**Web Precision** *http://www.webprecision.com* Get a free Internet marketing consultation and discover how to make the Internet work for you. [Exp. #181.]

**WebZinger** *http://www.webzinger.com/* The easiest way to find what you want on the Web. [Exp. #183.]

**Welcome To Blythe. CA** *http://www.sueofblythe.com/* Suesites Web Directory. [Exp. #183.]

**XLM.com** *http://www.xlm.com* A new Web site that serves as a key resource and nerve center for XML developers and users. [Exp. #181.]

**ZapMap** *http://www.zapmap.com/index.html* Interactive, vector-based geographic hot-spot directory of Web sites in Silicon Valley, written in Java. [Exp. #181.]

# SPECIALS

**Panasonic 4x8 CDR** $289.99

**32x Multimedia Kit** $59.99

**15" SVGA Monitor .28 dp** $119.99

**4.3 GB UDMA HDD** $119.99

**32 MB SDRAM** $23.99

**Win98** with system $94.99

**EPSON Color Stylus 600** $189.99

**AMD K6 266 Multimedia System** $554.99

- Intel 440 LX chipset w/ 512k
- 32 MB SDRAM
- 4.3 GB Ultra DMA hard drive
- 16 bit Yamaha Sound Card
- 32x CD-ROM
- 15" Monitor .28 dp SVGA
- Trident 4 MB 3D Video Card
- 33.6 Fax MODEM
- Keyboard, Mouse
- Digital case

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| Intel Inside | PII 233 | $649.99 |
| | PII 266 | $715.99 |
| | PII 300 | $815.99 |
| | PII 333 | $914.99 |
| AMD K6 | K6II 266 | $649.99 |
| | K6II 300 | $CALL |
| | K6 233 | $594.99 |

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- Intel 440 BX chipset
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- 56k Fax MODEM
- 8.4 GB Ultra DMA hard drive
- SoundBlaster AWE 64
- 32x CD-ROM
- 17" Monitor .28 dp SVGA
- Trident 4 MB 3D Video Card
- Keyboard, Mouse
- Digital case

| | |
|---|---|
| PentiumII™ 233 | $999 |
| PentiumII™ 266 | $1,029 |
| PentiumII™ 300 | $1,149 |
| PentiumII™ 333 | $1,249 |
| PentiumII™ 350 | $1,374 |
| PentiumII™ 400 | $1,574 |
| AMD K6-233 | $910 |
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- 104 Win 95 keyboard, Microsoft compatible mouse

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*Monitor not included

**Cyrix M2-300**

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| Mag DJ 800 19" .25 dp | $509 |
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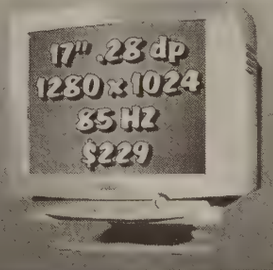
| Viewsonic P775 17" .25 dp | $429 |
| Amptron 17" .28 dp w/ Microphone | $224 |
| Digiview 17" .28 dp w/ Digital Control Flat Screen | $229 |

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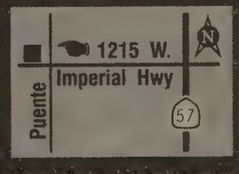


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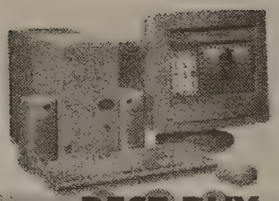

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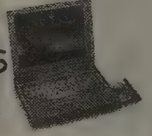

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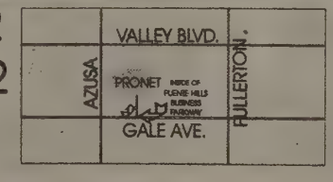


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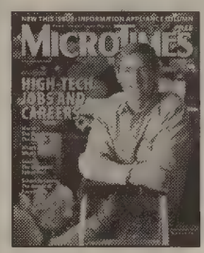



**Issue #178**

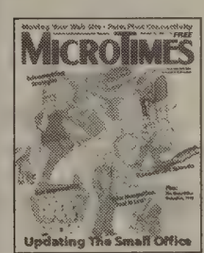
## High-Tech Jobs/Careers

We examine the red-hot high-tech job market in this issue. Our cover story features Fred Faltersack, co-founder and CEO of Westech. Faltersack talks about his company's products and services and offers advice to job seekers. Our Editorial Assistant Sara Tassione presents a survey of hiring managers and agencies as to what's hot and how to benifit. In other stories, Peter Linde devotes his portion of the BMUG column to explaining the user group's role in your job search; also, Associate Editor Michael Robin takes a look at the School-to-Career program of the Autodesk Foundation.

**Issue #177**

## Enterprise Computing, Intranet, Extranet

We survey the rapidly-evolving world of large-scale enterprise computing. We visit with Brian Reaves, CEO of San Jose-based Beyond Software, a startup helping Global 2000 companies make their mainframe-based legacy data legacy accessible in a Web-based environment. In related stories, Ivars Bezdechi looks at Qualcomm's intranet-based employee training program, and Peter Linde points out how, contrary to the current prevailing view, Macintosh is actually a preferable platform in the corporate environment.




**Issue #176**

## Small Office/ Home Office

We proudly present a number of stories of interest to those working in a small office, whether home-based or not. From voice recognition to OCR, new technologies are making it easier to work with your computer, and new Ethernet/ISDN networking hardware helps your office maximize its productivity. We also examine the joys of moving one's Web site and offer advice for surviving the experience.

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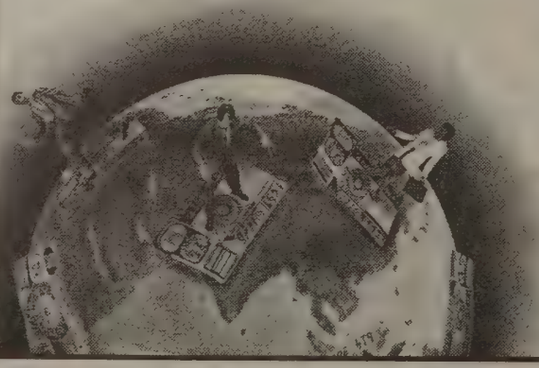

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**RRH Associates** *http://www.rrhassociates.com/* Electronic Architects. [Exp. #183.]

**Simply Sapphires** *http://members.xoom.com/JWT/index.htm* Fine gemstones for the discriminating pallette. [Exp. #183.]

**Smart Dolly—Bottled Water Installer** *http://www.smartdolly.com* Roll the bottle onto cradle, Smart Dolly lifts and loads automatically. No lifting, no spills. [Exp. #181.]

**Smith Corona For SOHO** *http://www.smithcorona.com/* Smith Corona center for small office/home office business products. [Exp. #183.]

**TechKnowledge Consulting** *http://www.techknlg.com/* Telecommunications consulting firm focusing on voice, data, and video network design, project management, and technology planning. [Exp. #182.]

**Temecula Creek Learning Center** *http://www.teamxl.com/* Team building and leadership. [Exp. #183.]

**Time To Market, Inc.** *http://www.timetomarket.com/* A team of professionals that develop and implement competitive sales strategies and measurable marketing programs for software companies. [Exp. #183.]

**Tony Alexander** *http://www.best.com/~alex20* Architect and computer graphics artist. [Exp. #182.]

**Tripweb** *http://www.tripweb.com* Online airline reservations, car rentals, hotel reservations, cruise lines, passport and visa info, Disney packages, and general travel information. [Exp. #181.]

**The Twelfth House Metaphysical Store** *http://www.thetwelfthhouse.com/* The best resource for New Age information. [Exp. #183.]

**US Digital Communications Inc.** *http://www.usdi.net/* Digital communications. [Exp. #182.]

**Veterinary Specialist Network** *http://www.veterinary.com/* VSN brings world renowned veterinary specialists together with private practitioners in a collaborative effort to enhance veterinary medical diagnosis. [Exp. #183.]

**Via Data & Marketing Services** *http://www.vianj.com/* Fulfillment, mailing, prospect management services. [Exp. #183.]

**Washington Institute Of Dermatologic Laser Surgery** *http://www.skinlaser.com/* The D.C. metropolitan area's first laser surgery center dedicated solely to the laser treatment of dermatologic conditions. [Exp. #182.]

**World Auto Parts, Inc.** *http://www.worldauto.com/* Supplier of automotive cores to the rebuilding industry. [Exp. #183.]

**Writing Specialties Home Page** *http://www.writingspecialties.com* Wholesale distributor of quality Sanford writing instruments. [Exp. #183.]

**Yama Glass Color Your Life** *http://www.yamaglass.com.tw/* Offer to sell: glass coffee shyphon, pot, and tea pot. [Exp. #183.]

## Financial/Real Estate Services

**1% Homeseller** *http://www.1homeseller.com* Discounted real estate fees, buyer rebates, homes for sale by owner in Southern California. [Exp. #181.]

**Abacus International Financial Network** *http://www.abacusintl.com/* [Exp. #182.]

**American Capital Loans** *http://www.debthelp.cc/* Providing loans for homeowners with no equity required. [Exp. #181.]

**Bank Of San Francisco** *http://banksf.com/* Private and business banking, stock option and discount brokerage services. [Exp. #183.]

**Central Software** *http://www.centralsoftware.com/html/infform.html* Retail banking, unit trust, and portfolio management software. [Exp. #183.]

**Development Finance Limited** *http://www.dflpos.com* [Exp. #182.]

**Durban Roodepoort Deep Gold Mining Group** *http://www.drd.co.za/* Information for investors, analysts, researchers and others. [Exp. #182.]

**Fidelity Capital** *http://www.fidelitycapital.com/* Fidelity Capital is the new business development and venture capital arm of Fidelity Investments. [Exp. #182.]

**Fidelity Ventures: Venture Capital Investing** *http://www.fidelityventures.com/* Helping to develop companies in healthcare, communications, software, employer services, and education. [Exp. #183.]

**Flex-Soft** *http://www.flex-soft.com/* Develop proposal and illustration software for pension & retirement planning industry. 401(k) software. [Exp. #183.]

**Furstenfeld Group** *http://www.parabroker.com/* National and international trade. [Exp. #183.]

**HomeShark** *http://www.homeshark.com/* The leading online mortgage and real estate services company. [Exp. #181.]

**IOA Re** *http://www.ioare.com/* A full service reinsurance underwriting manager specializing in the Accident and Health reinsurance and insurance fields. [Exp. #182.]

**Jeremiah K. Murphy, CPA** *http://www.jkmcpa.com/* Helping businesses succeed for over 20 years. [Exp. #182.]

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**The McLean Group** *http://www.mcleangroup.com/* Real estate developers. [Exp. #181.]

**MP Riehl Insurance Pages** *http://www.riehlins.com/index.htm* A personal Insurance Company to suit your needs. [Exp. #183.]

**Northern California Real Estate** *http://www.alolvera.com* Specializes on properties for the investor, in Contra Costa and Alameda counties. [Exp. #183.]

**Pacific Coast Realty** *http://www.buyersagentrealty.net/* Access to Sacramento, CA real estate. [Exp. #183.]

**Rate.net** *http://www.rate.net/* Mortgage, CD, auto, and credit card interest rates are ranked and compared daily for over 11,000 financial institutions at RateNet. [Exp. #183.]

**Ronald J. Riley's Internet Pages** *http://www.rjriley.com/* Investor resources. [Exp. #182.]

**Stern Financial Services** *http://mpb.com/sfs/* Retirement planning for educators. SFS offers personalized services and products to meet your individual financial needs. [Exp. #181.]

**Stockholder.com** *http://stockholder.com/* The number one investor forum with message boards and investor relations info. [Exp. #183.]

**Technology Funding Capital Fund VI** *http://www.techfunding.com* The first public security to be registered nationwide as an online offering and the first venture capital investment opportunity offered to small investors over the Web. [Exp. #182.]

**Tulips And Bears** *http://www.toddswitzer.com/* Free market newsletter provides contrary opinion for thinking traders. Global coverage, both long and short. [Exp. #183.]

## Legal Services

**NetCourt Web Site** *http://www.interNetCourt.com* NetCourt is a leading provider of online trial and expert witness transcripts produced by court reporters from around the country. [Exp. #181.]

**Richard J. Greenstone, Attorney at Law** *http://www.rjg.com/* Copyright, trademark, licensing, business, and transactional law for the computer, entertainment, and publishing industries. [Exp. #181.]

## Employment/ Education

**Berklee College Of Music** *http://www.berklee.edu* [Exp. #181.]

**Black American History** *http://www.neuronet.pitt.edu/~earl* [Exp. #183.]

**Capital Markets Consulting Ltd.** *http://www.cmcx.com/graduates.htm* Global investment banking graduate jobs and careers. [Exp. #183.]

*continued on page 178*


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**THETA COMPUTER** • 11968 Wilshire Blvd. • Los Angeles
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**SYMPHONY COMPUTER** • 58 W. Las Tunas • Arcadia
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**BARNES & NOBLE** • 6326 E. Pacific Coast Hwy. • Long Beach • (X Street: Bellflower)
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**INLAND COMPUTER CENTER** • 302 S. Milliken Ave., Suite A • Ontario • (X Street: Santa Ana)
**NEMA COMPUTERS** • 1680 Hammer Avenue #19 • Norco
**NET 10 TECHNOLOGIES** • 9108 Pittsburgh Avenue, Ste. B • Rancho Cucamonga
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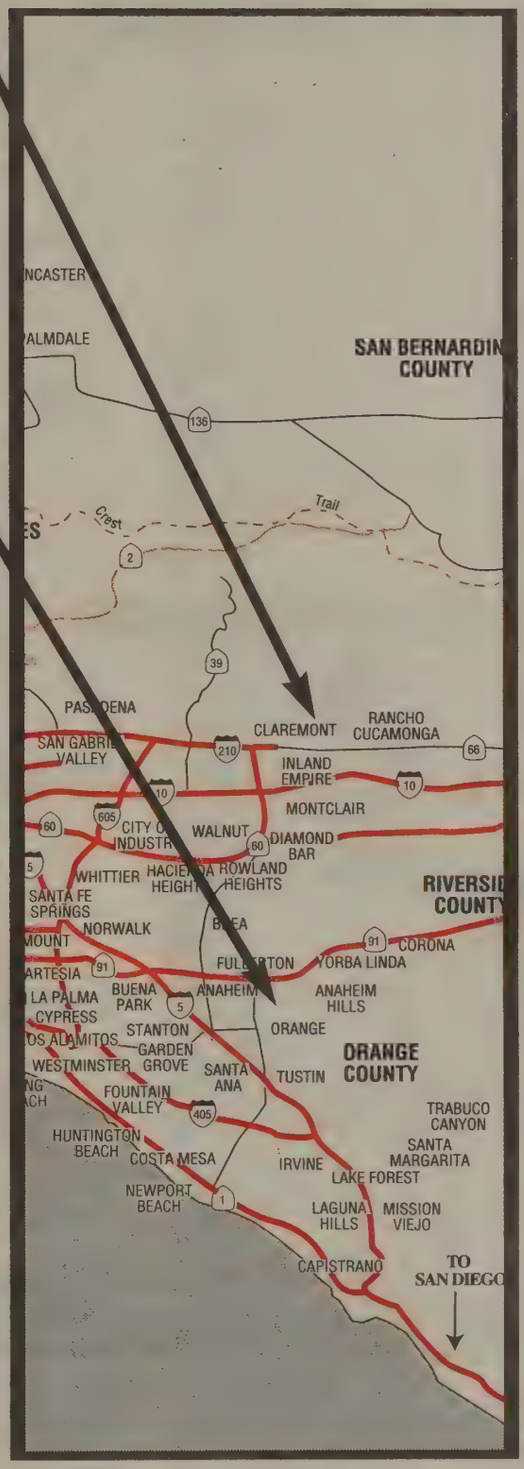


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- Sound Blaster AWE64 Value Sound Card
- Surround Speakers w/Sub-Woofer
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- 104 Keys Keyboard & Hi Res Mouse
- 7 Drive Bays Mid Tower Case
  Microsoft Window 98

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- DIAMOND FIRE GL PRO 1000 8MB AGP/PCI $ 165/155
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- INTEL PENTIUM MMX 233 MHZ $119
- INTEL PENTIUM MMX 200 MHZ $105
- AMD K6 I-300 $180
- AMD K6-300 $140
- AMD K6-266 $105
- AMD K6-233 $79

***** CPU & MEMORY PLEASE CALL FOR LOWEST PRICES *****

## CONTROLLERS

- ADAPTEC 2902E $65
- ADAPTEC 2910C $95
- ADAPTEC 2940U $139
- ADAPTEC 2940 UW $169
- ADAPTEC 2940 U2W $375
- ADAPTEC 3940UW $350
- ADAPTEC 8945 $525

## CD ROM DRIVES

- BTC 36X IDE $49
- TOSHIBA 24X EIDE $52
- TOSHIBA 32X EIDE $62
- TOSHIBA 32X SCSI $92
- TOSHIBA 20X DVD KIT $225
- CREATIVE 20X DVD KIT W/DECODING CARD $215
- PIONEER 20X DVD KIT $215
- ACER 32X IDE $55
- ACER 24X IDE $48
- CYBER 24X IDE $40
- CYBER 32X $45
- PANASONIC 4X8 SCSI CD RECORDER $325
- HP 7200I SURESTOR 6/2/2 IDE REWRITABLE CD RECORDER $359
- SONY 2X6 SCSI CD RECORDER $299
- SONY 2X8 IDE CD RECORDER $280
- SONY 4X8 SCSI CD RECORDER $389

## NETWORK CARDS

- 3 COM 3C905 TX 10/100 PCI $55
- INTEL 10/100 TX PCI $50
- D-LINK DFE 530 10/100 TX PCI $25
- SN 3200 PCI COMBO $13
- SN 2000 16 BIT COMBO $11

## HARD DISK DRIVES

- IBM (HERCULES) 8.4GB ULTRA ATA $239
- IBM (HERCULES) 6.4GB ULTRA ATA $173
- IBM 4.5GB UWSCSI (7200 RPM) $289
- IBM 4.3GB UW SCSI (5400 RPM) $255
- IBM 9 GB UW SCSI (7200 RPM) $565
- MAXTOR 8.4GB ULTRA ATA $239
- MAXTOR 6.4GB ULTRA ATA $169
- MAXTOR 4.3GB ULTRA ATA $135
- QUANTUM FB 3.2GB ULTRA ATA $129
- QUANTUM FB 4.3GB ULTRA ATA $145
- QUANTUM FB 6.4GB ULTRA ATA $175
- QUANTUM FB 8.4GB ULTRA ATA $265
- SAMSUNG 3.2GB ULTRA ATA $120
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- WD 32500 2.5GB ULTRA ATA $125
- WD 33200 3.2GB ULTRA ATA $130
- WD 34300 4.3 GB ULTRA ATA $139
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- WD 36400 6.4GB ULTRA ATA $180
- SEAGATE (BARACUDA) 4.5GB ULTRA/ULTRA EIDE $545
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- SEAGATE (CHITAH) 4.5GB ULTRA/ULTRA WIDE SCSI $549/589
- SEAGATE (CHITAH) 9.0GB ULTRA/ULTRA WIDE SCSI $1025/1065

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- 8MB EDO 2X32 $13
- 16MB EDO 4X32 $17
- 32MB EDO 8X32 $30
- 64MB EDO RAM $75
- 32MB (4 CLOCK) SDRAM $33
- 64MB (4 CLOCK) SDRAM $69
- 128MB (4 CLOCK) SDRAM $135
- 32MB SDRAM (100 MHZ) $45
- 64MB SDRAM (100 MHZ) $85
- 128MB SDRAM (100 MHZ) $175

## CASES

- FULL TOWER CASE $45
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- MINI TOWER CASE $23
- DESK TOP CASE $25
- MEDIUM TOWER CASE ATX $60
- FULL TOWER CASE ATX $80

## SPEAKERS

- MLI-699 80 WATT $7
- EP180 320W SPEAKER $17
- CS240 240 WATT SPEAKER $19
- SW3 350 WATT SPEAKER $22
- YAMAHA M15 10W $59
- YAMAHA SUB-WOOFER $80
- SURROUND SPEAKER W/WOOFER $30

## PRINTER

- EPSON STYLUS COLOR 400 $140
- EPSON STYLUS COLOR 600 $175
- EPSON STYLUS PHOTO 700 $240
- EPSON STYLUS COLOR 800 $265
- EPSON STYLUS COLOR 850 $319
- HEWLETT PACKARD 672C $192
- HEWLETT PACKARD 694C $235
- HEWLETT PACKARD 722C $289
- HEWLETT PACKARD 890C SE $380
- HEWLETT PACKARD 6L SE $385
- HEWLETT PACKARD 6 PSE $725
- HEWLETT PACKARD 1120 CSE $455
- HEWLETT PACKARD 4000 SE $1095
- HEWLETT PACKARD OFFICEJET 500 $350
- HEWLETT PACKARD OFFICEJET 570 $395
- HEWLETT PACKARD OFFICEJET 600 $470
- HEWLETT PACKARD OFFICEJET 1170 $740

## MODEMS

- USR SPORTSTER 55600 INT'L (V. 90) $110
- USR SPORTSTER 55600 EXT'L (V. 90) $125
- USR SPORTSTER 55600 INT'L VOICE $150
- USR SPORTSTER 55600 EXT'L VOICE $185
- J-MARK 55600 INT'L W/VOICE (TI) V.90 $48
- J-MARK 55600 INT'L W/VOICE (ROCKNELL) V.90 $49
- DIAMOND 55600 INT'L W/VOICE (PCI) $52

## TAPE BACKUP

- COLORADO T3000 3.2GB INT'L $155
- SEAGATE 4GB/8GB INT'L SCSI $349
- SEAGATE 3.2GB INT'L $145
- IOMEGA 1GB EXT'L/INT'L JAZ DRIVE $275/259
- IOMEGA 2GB EXT'L/INT'L JAZ DRIVE $550/469
- IOMEGA 100MB ZIP PLUS $169
- IOMEGA 100MB EXT'L PARALLEL ZIP DRIVE $125
- IOMEGA 100MB SCSI INT'L ZIP DRIVE $115
- IOMEGA 100MB ATAPI $70

## KEYBOARDS

- FOCUS 2001 $23
- FOCUS 6200 $20
- FOCUS 7200 $25
- FOCUS 8200 $36
- FOCUS 9200 $40
- KEYTRONIC 3601 $20
- FUJITSU 8725 $17
- FUJITSU 4725 $36
- BTC 104 KB $10
- BTC PS/2 KB $11
- EKP 804 W/TOUCH PAD $34

## MOUSES

- MICROSOFT SERIAL MOUSE $20
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- LOGITECH INTELLIGENT MOUSE $20
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- SHUTTLE 3 BUTTON MOUSE $5

## SOUND CARDS

- ESS 16 BIT PNP SOUND CARD $13
- SOUND BLASTER 16 BIT NON IDE $28
- SOUND BLASTER AWE64 GOLD $125
- SOUND BLASTER AWE64 VALUE (OEM) $55
- SOUND BLASTER PCI W/32 VOICE $39
- SOUND BLASTER 64 PCI $90
- S3 PCI W/32 VOICE $20

## FLOPPY DISK DRIVE

- MITSUMI 1.44 MB $16
- SAMSUNG 1.44 MB $16
- MITSUBISHI 1.44 MB $16
- TEAC 1.44 MB $18
- HI-VAL LS-120 $125

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- HEWLETT PACKARD 6100 CSE $699
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*continued from page 172*

**ConsultLink** *http://www.consultlink.com* Over 19,000 computer consultants contractors are represented in the ConsultLink Web site. [Exp. #181.]

**DiversiLink** *http://www.diversilink.com/* The official career development and job posting Web site of the Society of Hispanic Professional Engineers (SHPE). [Exp. #183.]

**Fundamental Buddhism Explained** *http://www.fundamentalbuddhism.com/* Explicit explanation of Buddhism, based on the Pali Canon, recognized by Buddhist scholars as the oldest surviving written record of what the Buddha actually said and taught. [Exp. #182.]

**Historic American Productions Web Site** *http://www.cyberramp.net/~hap/* Pioneer skills educational video series. [Exp. #182.]

**HTML Spoken Here** *http://www.geocities.com/~jimhanson* Free tutorial teaches you how to create your own Web page. [Exp. #181.]

**Latin America And Caribbean Jobs Page** *http://www.visa.com/careers/* Career opportunities at VISA Latin American/Caribbean headquarters located in Miami, FL. [Exp. #183.]

**Leslie H. Carter & Associates** *http://members.aol.com/SU4MLK/index.html* Youth violence prevention and intervention programs designed to teach students social responsibility, citizenship, and skills to resolve interpersonal conflicts. See examples of curriculum. [Exp. #182.]

**Mr. Brain Tutor** *http://members.tripod.com/~russmccor/tutor.htm* Live teachers online: Tutoring in mathematics, English, computer programming, history, writing, etc. [Exp. #181.]

**New Job Site** *http://www.nethunter.net* [Exp. #181.]

**Oak Tree Systems, Inc.** *http://www.oaktree-systems.com* Software solutions for training centers. [Exp. #181.]

**Precision Screening** *http://www.precisescreen.com/* Advanced, affordable pre-employment screening solutions. [Exp. #183.]

**Pro Web Resumes** *http://www.prowebres.com/* Your one page resume converted into a custom designed Web resume site that will set you apart from your job competition. [Exp. #183.]

**Southwest Safari** *http://www.southwestsafari.com/* Educational adventure travel in the southwest. [Exp. #183.]

**Teach Your Child To Swim With Aqua Tykes** *http://www.aquatykes.com/* Teach your child to swim with ease and confidence! [Exp. #181.]

**Thompson Institute** *http://www.thompsoninstitute.org/* Private Postsec-ondary educational institution. [Exp. #183.]

## Organizations

**Amnesty International** *http://www.amnesty.org* Campaigns for fair trials, prisoners of conscience, and against torture, degrading or inhumane treatment. [Exp. #181.]

**Arizona Environmental Health Association** *http://www.aeha.org/* Non-profit association for the advancement of environmental health in Arizona. [Exp. #182.]

**Better Golf Institute** *http://www.bettergolf.org/* [Exp. #183.]

**Condo Management Online** *http://www.condomgmt.com/* The premier resource for community associations. [Exp. #181.]

**Cult Awareness Resources, CARES** *http://cares-cares.org* Provides information to the campus community about cult activity, including International Churches of Christ information. [Exp. #183.]

**Cyber Home of Judaism** *http://www.ou.org/* A one-stop resource for everything Jewish and Israel related. [Exp. #183.]

**Doctors Of The World** *http://www.doctorsoftheworld.org* Dedicated to improving the health and relieving the suffering of vulnerable people throughout the world. [Exp. #181.]

**East Long Beach Jr. Baseball '98** *http://www.elbjb.org/* Includes up-to-date scores, standings, schedules, team rosters and photos, plus much, much more. [Exp. #183.]

**The Fourth Freedom Forum** *http://www.fourthfreedom.org/* Specialists in sanctions, incentives, and nuclear nonproliferation. [Exp. #183.]

**Global Fund For Women** *http://www.globalfundforwomen.org* A grant-making foundation that provides flexible, timely assistance to grassroots women's groups around the world. [Exp. #181.]

**Golden Gate Computer Society (GGCS)** *http://www.ggcs.org* Membership and activities information about a premier microcomoputer group. [Exp. #183.]

**Hepatitis C: An Epidemic For Anyone** *http://www.epidemic.org/* This health awareness site, hosted by Dr. C. Everett Koop, provides extensive information about the hepatitis C epidemic. [Exp. #183.]

**Institution of Incorporated Engineers** *http://www.iie.org.uk/iie* The UK's largest professional association in electronic, electrical, and mechanical engineering for incorporated engineers and engineering technicians. [Exp. #181.]

**Jewish Scientist Network** *http://www.jsn.org/jsnhome.html* An information server based on reader submission of articles, news, links, references, etc., all pertaining to Jewish issues relating to the sciences or scientific issues. [Exp. #181.]

**KidsHealth Club** *http://www.ama-assn.org/KHClub* The purpose of the American Medical Association's (AMA) new KidsHealth Club is to help parents raise healthy, happy children. [Exp. #182.]

**Main Street United Methodist Church** *http://www.jfsi.com/msumc.htm* Kernersville, NC's friendliest and most vibrant Church. [Exp. #181.]

**National Center For Employee Ownership** *http://www.nceo.org/* Articles, columns, discussions, and interactive training on employee stock ownership plans, stock options, etc. [Exp. #182.]

**Neighbors For Responsible Logging** *http://www.responsible-neighbors.org* A grassroots environmental group. [Exp. #182.]

**NetAction** *http://www.netaction.org/training* NetAction's Virtual Activist, a comprehensive training course on cyber-activism, is now on the Web. [Exp. #181.]

**New 1998 NACA Web Site** *http://www.naca.org/index.html* [Exp. #181.]

**Nizkor** *http://www.nizkor.org* Transcripts from the Nuremberg trials of convicted Nazi war criminals are now posted to the Web by Nizkor. [Exp. #181.]

**NOCCC (North Orange County Computer Club)** *http://www.noccc.org* Web page of computer user group. Meetings: 1st Sunday of the month, 9:00 am, Chapman University, 333 N. Glassell Ave., Orange. [Exp. #181.]

**Performance Animation Society** *http://www.PASociety.org* 3D character and performance animation/motion capture SIG. [Exp. #181.]

**Rainforest Foundation** *http://www.charityprofile.co.uk/rainforestfoundation.html* Est. in 1989 by Sting and his wife, Trudie Styler, to help save the Brazilian rainforest. [Exp. #181.]

**Research Association For Radio Applications** *http://www.fgf.de/* [Exp. #183.]

**Saint Alban's Episcopal Church Online** *http://www.saintalban.org/* Saint Alban's Episcopal Church in El Paso, Texas. [Exp. #183.]

**Santa Clarita Valley's PC Group** *http://www.smartlink.net/~scvpcg* The Santa Clarita Valley's PC Group is dedicated to PC literacy. Come join us. [Exp. #181.]

**SFAUG—San Francisco AutoCAD Users Group** *http://www.sfaug.org* Meets 1st Monday each month, 6–8:30 pm, usually at the SFSU Downtown Center at 425 Market St. [Exp. #181.]

**United States Amateur Ballroom Dancers Association** *http://www.usabda.org/* [Exp. #183.]

**Warchild** *http://www.warchild.org* Works to alleviate the suffering of children by bringing material aid into war zones. [Exp. #181.]

## Publications

**Bad Subjects** *http://eserver.org/bs/default.html* Semi-academic zine. [Exp. #181.]

**Bayani Magazine** *http://primaveradesign.com/bayani.html* An online magazine of Filipino arts and culture. [Exp. #181.]

**Best Telephone Directories Inc.** *http://www.bestdirectories.com/* Philippine Yellow Pages publisher and software company. [Exp. #183.]

**Blithe House Quarterly** *http://www.blithe.com/* BHQ features a diversity of new short stories by emerging and established gay, lesbian, and bisexual authors. [Exp. #181.]

**Bowerbird Press** *http://www.ozemail.com.au/~bowerbrd/* Australian music biography publisher. [Exp. #183.]

**Car Secrets** *http://www.igs.net/carsecrets/info12.htm* An auto consumer's and owner's book for sale online with hundreds of cost saving tips. [Exp. #181.]

**Cookbook Marketplace** *http://www.pemcoltd.com/* Over 1,500 cookbook titles are indexed and available for review and purchase online. That is every title in print! [Exp. #182.]

**dailylung.com** *http://dailylung.com/* A magazine for Pulmonary Medicine physicians, patients with lung disease and their families. [Exp. #182.]

**Driving And Style** *http://www.drivingandstyle.com/index.html* Online e-zine that includes information for auto enthusiasts. [Exp. #182.]

**Echo Station** *http://www.echostation.com/* Online magazine for Star Wars fans with the latest news, reviews, previews, and interviews from the Star Wars universe. [Exp. #182.]

**Financing News** *http://www.datamerge.com/financingnews/index.html* The Financing News Online Edition has been completely revamped with many new articles and a user friendly interface. [Exp. #182.]

**Football 365** *http://www.football365.co.uk/* The world's only free, daily, personalized soccer newspaper. [Exp. #183.]

**Fragments Of A Lost Mind** *http://www.enteract.com/~duh/index.htm* A great American novel. [Exp. #182.]

**Global Phone Book** *http://www.PhoneNumbers.net* Offers a unique collection of phone, fax, and email directories—worldwide. [Exp. #181.]

**International Stock Newsletter** *http://members.aol.com/mysteryco/international_stock_newsletter.htm* Undiscovered international stock investments with large potential. Objective financial information on innovative global companies. [Exp. #181.]

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| WESTERN DIG. | 2.5G | $123 |
| WESTERN DIG. | 3.2GUDMA | $129 |
| WESTERN DIG. | 4.3GUDMA | $139 |
| WESTERN DIG. | 6.4GUDMA | $179 |
| WESTERN DIG. | 8.4GUDMA | $245 |
| WESTERN DIG. | 4.3GUW | $395 |
| WESTERN DIG. | 9.1GUW | $675 |
| IBM | 6.4GUDMA | $189 |
| IBM | 8.4GUDMA | $295 |
| SEAGATE CHEETAH | 4.5GUW | $550 |
| SEAGATE CHEETAH | 9.0GUW | $850 |

### TAPE BACKUP

| MFG. | | PRICE |
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| SYQ. SPARQ INT/EXT 1.0G | | $175 |
| SYQ. SYJET INT/EXT 1.5G | | $295 |
| HP T3000 INT 1.9/3.2GB | | $159 |
| HP 5G INT IDE 2.5/5.0GB | | $195 |
| HP T-4i INT 4.0/8.0 GB TR4 | | $365 |
| IOMEGA ZIP EXT PAR 100MB | | $129 |
| IOMEGA ZIP EXT SCSI 100MB | | $139 |
| IOMEGA ZIP-PLUS EXT | | $185 |
| IOMEGA ZIP INT IDE 100MB | | $ 89 |
| IOMEGA JAZ INT SCSI 2.0G | | $439 |
| IOMEGA JAZ EXT SCSI 2.0G | | $439 |

### VIDEO CARDS

| MFG. | PRICE |
|---|---|
| AGP MATROX MILLENIUM II 4MB | $115 |
| AGP DIAMOND VIPER V3 3D 8MB | $ 85 |
| MATROX MILLENIUM II 4MB | $115 |
| MATROX MYSTIQUE 220 4MB | $ 65 |
| DIAMOND 3D PRO 2000 2MB | $ 45 |
| TRIDENT 9680 2MB | $ 23 |
| DIAMOND MONSTER 3DFX 4MB | $155 |
| INTENSE 3DFX VOODOO 6MB | $185 |
| DIAMOND VOODOO2 8MB/12MB | $245/280 |

### CDROM, CDRW, DVD

| MFG. | PRICE |
|---|---|
| TOSHIBA 24X IDE | $ 55 |
| TOSHIBA 32X IDE | $ 65 |
| TEAC 32X SCSI | $ 99 |
| HP 7200I CDRW IDE | $369 |
| ENCORE DXR2 DVD IDE | $270 |

### MODEM

| MFG. | PRICE |
|---|---|
| USR V.90 56K INT. | $139 |
| USR 56K INT. VOICE | $115 |
| USR V.90 56K EXT. | $185 |
| USR 56K EXT. VOICE | $189 |
| SMARTLINK 56K INT. X2 V.90 | $ 59 |
| SMARTLINK 56K INT. FLEX V.90 | $ 54 |

### SOUND CARDS

| MFG. | PRICE |
|---|---|
| PCI ENSONIQ | $ 38 |
| SB VIBRA 16 | $ 35 |
| SB AWE 64 VALUE | $ 59 |
| SB AWE 64 GOLD | $135 |
| YAMAHA 16 | $ 13 |

### SPEAKERS

| MFG. | PRICE |
|---|---|
| JAZZ J-215 2WATT | $ 17 |
| JAZZ J-340 10WATT | $ 32 |
| JAZZ J-590 28WATT | $ 62 |
| JAZZ J-902 SUB 18WATT | $ 75 |
| JAZZ JS-100 3D 8WATT | $ 40 |
| JAZZ JS-200 3D 12WATT | $ 55 |
| JAZZ JS-300 3D 28WATT | $ 75 |
| JAZZ JS-900 SUB 18WATT | $ 85 |

### MOTHERBOARDS

| MFG. | PRICE |
|---|---|
| ASUS BX | $179 |
| I-WILL BX | $155 |
| ABIT BX | $135 |

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| MFG. | PRICE |
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| LOGICTECH TRACKMAN | $ 39 |
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| LOGICTECH MOUSEMAN 4 BUTTON | $ 45 |
| DIGITAL MOUSE W/PAD | $ 15 |
| GENERIC MOUSE SERIAL OR PS/2 | $ 6 |

### CASES

| MFG. | PRICE |
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| GENERIC MINI TOWER | $ 29 |
| GENERIC MID TOWER | $ 49 |
| SUPER TOWER | $115 |
| ACER DESKTOP | $ 65 |
| ACER MINI TOWER | $ 58 |
| ACER MID TOWER | $ 65 |
| ACER TALL TOWER | $130 |

### HP SCANNERS

| MFG. | PRICE |
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| SCAN JET 5100CXI | $CALL$ |
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### FLOPPY DRIVES

| MFG. | PRICE |
|---|---|
| TEAC 1.44 FD | $ 22 |
| MITSUBISHI LS-120 | $ 95 |

### SCSI CONTROLLER

| MFG. | PRICE |
|---|---|
| ADAPTEC PCI 2940UW | $175 |
| BUS LOGIC PCI | $ 35 |
| NCR PCI SCSI-2 | $ 49 |
| NCR PCI SCSI-2 W/BIOS | $ 85 |

### KEYBOARDS

| MFG. | PRICE |
|---|---|
| KEYTRONICS PS/2,AT | $ 19 |
| FUJITSU 4725-500/601 PS/2,AT | $ 39 |
| FUJITSU 4725-601 | $ 17 |
| FOCUS 2001 | $ 22 |
| ACER | $ 12 |

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2 NIMH BATT, CASE
WINDOWS 95 CD

TOSHIBA

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20X CDROM DRIVE
16-BIT SOUND CARD
56K MODEM
TV PORT, IRda
1 NIMH BATT, CASE
WINDOWS 95 CD

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### NETWORK CARD

| MFG. | PRICE |
|---|---|
| PCI SN3200 COMBO | $ 15 |
| PCI SN5000 10/100 | $ 27 |
| PCI 3COM 10/100 (3C905TX) | $ 65 |
| PCI INTEL 10/100 | $ 47 |
| ISA SN2000 RJ45 | $ 12 |

### NETWORK HUBS

| MFG. | PRICE |
|---|---|
| 8 PORT 10BT | $ 55 |
| 16 PORT 10BT | $105 |
| 8 PORT 10/100BT | $245 |
| 16 PORT 100BT | $395 |

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| SPARQ 1.0GB 1-PACK | $ 35 |
| SPARQ 1.0GB 3-PACK | $ 95 |
| SYJET 1.5GB 1-PACK | $ 65 |
| SYJET 1.5GB 3-PACK | $175 |
| JAZZ 1.0GB 1-PACK | $ 95 |
| JAZZ 1.0GB 3-PACK | $295 |
| JAZZ 2.0GB 1-PACK | $155 |
| JAZZ 2.0GB 3-PACK | $425 |
| CD REWRITABLE 1PK | $ 25 |
| CD RECORDABLE 1PK | $ 2 |

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|---|---|
| 6 FT. PRINTER | $ 6 |
| 10FT. PRINTER | $14 |
| 6 FT. MODEM | $10 |
| 6 FT. KEYBOARD | $ 8 |
| 6 FT. PS/2 | $ 8 |
| 6 FT. MONITOR | $ 5 |

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|---|---|
| 3 FT. 10BT | $ 3 |
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| DESK JET | 692C | 5BLCK/1.7CLR | $229 |
| DESK JET | 720C | 7BLCK/4.0CLR | $275 |
| DESK JET | 890CXI | 9BLCK/5.0CLR | $375 |
| LASER JET | 6LXI | 6BLCK | $369 |
| LASER JET | 6PXI | 8BLCK | $699 |
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| LASER JET | 3100XI | | $CALL$ |
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| LASER JET | 4000N | 17BLCK | $CALL$ |
| LASER JET | 4000T | 17BLCK | $CALL$ |
| LASER JET | 4000TN | 17BLCK | $CALL$ |
| LASER JET | 5000 | 16BLCK | $CALL$ |
| LASER JET | 8000 | 24BLCK | $CALL$ |
| OFFICE JET | 630 | 5BLCK/2.0CLR | $509 |
| OFFICE JET | 590 | 5BLCK/2.0CLR | $409 |
| OFFICE JET | 520 | 5BLCK/2.0CLR | $365 |
| COLOR LASER | 5 | 10BLCK/3.0CLR | $CALL$ |

### COLOR & DOT MATRIX PRINTERS — EPSON

| MODEL | | PPM | PRICE |
|---|---|---|---|
| STYLUS PHOTO | 700 | 90SEC/6MIN | $259 |
| STYLUS COLOR | 600 | 6BLCK/7.0CLR | $189 |
| STYLUS COLOR | 800 | 8BLCK/7.0CLR | $285 |
| STYLUS COLOR | 1520 | 6BLCK/5.0CLR | $735 |
| LQ MATRIX | 570+ | 269CPS/24-PIN | $245 |
| LQ MATRIX | 870 | 330CPS/24-PIN | $435 |
| FX MATRIX | 880 | 380CPS/ 9-PIN | $285 |
| LX MATRIX | 300 | 264CPS/ 9-PIN | $169 |

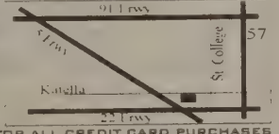
### AUTHORIZED DEALER — OPTIQUEST

| MODEL | SIZE/VA | RES | DPI | PRICE |
|---|---|---|---|---|
| Q41 | 14" 13.1" | 1024x768 | .28 | $135 |
| V655 | 15" 13.8" | 1280x1024 | .28 | $189 |
| Q51 | 15" 13.7" | 1024x768 | .28 | $163 |
| Q53 | 15" 13.8" | 1280x1024 | .28 | $175 |
| Q71 | 17" 16.0" | 1280x1024 | .27 | $289 |
| V773 | 17" 15.8" | 1280x1024 | .26 | $CALL$ |
| V75 | 17" 16.0" | 1600x1200 | .26 | $389 |
| V95 | 19" 18.0" | 1600x1280 | .26 | $565 |
| Q100 | 20" 18.4" | 1600x1280 | .28 | $845 |
| V115 | 21" 20.0" | 1600x1280 | .26 | $929 |
| V115T | 21" 19.7" | 1600x1280 | .28 | $999 |

### AUTHORIZED DEALER — ViewSonic

| MODEL | SIZE/VA | RES | DPI | PRICE |
|---|---|---|---|---|
| E641 | 14" 13.2" | 1024x768 | .28 | $149 |
| E655 | 15" 13.7" | 1280x1024 | .28 | $215 |
| P655 NEW | 15" 14.0" | 1280x1024 | .27 | $249 |
| E771 | 17" 16.0" | 1280x1024 | .27 | $339 |
| EA771 | 17" 16.0" | 1280x1024 | .27 | $435 |
| G771 | 17" 16.0" | 1280x1024 | .27 | $369 |
| G773 | 17" 16.0" | 1280x1024 | .26 | $435 |
| GS771 | 17" 16.0" | 1280x1024 | .27 | $375 |
| GT775 | 17" 16.0" | 1600x1280 | .25AG | $549 |
| GA771 NEW | 17" 16.0" | 1280x1024 | .27 | $469 |
| P775 | 17" 16.0" | 1600x1280 | .25 | $459 |
| PT771 NEW | 17" 16.0" | 1600x1280 | .25AG | $599 |
| PT775 | 17" 16.0" | 1600x1280 | .25AG | $649 |
| G790 | 19" 18.0" | 1600x1280 | .26 | $669 |
| G800 | 20" 19.0" | 1600x1280 | .28 | $925 |
| G810 | 21" 19.1" | 1600x1280 | .25 | $959 |
| P810 | 21" 20.0" | 1600x1280 | .25 | $1085 |
| PT813 | 21" 20.0" | 1600x1280 | .28AG | $1299 |
| P815 | 21" 20.0" | 1800x1440 | .25 | $1199 |

# MAGICTEK COMPUTERS




PRICES SUBJECT TO CHANGE WITHOUT NOTICE NOT RESPONSIBLE FOR TYPOGRAPHICAL ERRORS. ALL PRICES BASED ON CASH SALES ONLY + TAX. ADD 3% FEE FOR ALL CREDIT CARD PURCHASES

**ModemHelp.com** *http://www.modemhelp.com* ModemHelp is an infocenter type resource which offers a complete guide to modem-related information on the Web. [Exp. #181.]

**Porcupine Direct** *http://www.porcupinedirect.com/* Self publisher of How-to-Booklets on alternative healing and other subjects, plus we sell Native American items. [Exp. #183.]

**Russian Internet Broadcasting** *http://www.ribcast.com* Russian newspapers are now available via Backweb push channels in Acrobat PDF format, including all graphics and Russian fonts. [Exp. #182.]

**Soccer 365** *http://www.soccer365.com/* A free daily, fully personalized soccer newspaper. [Exp. #182.]

**Tips On How To Improve Your Golf Game** *http://www.nwgraphics.com/golf* A booklet to show you how you can improve your golf game. [Exp. #182.]

**U-Turn Monograph And E-zine** *http://www.uturn.org/* An art journal. [Exp. #181.]

## Odds & Ends

**A Speculator's Diary** *http://www.concentric.net/~L77280r/DIARYHDG.HTM* A Speculator's Diary is where the visitor is shown exactly how to earn money speculating. Nothing is left to the imagination. [Exp. #182.]

**All-Dogs.com** *http://www.all-dogs.com/* A comprehensive listing of dog professionals. [Exp. #182.]

**American Needlepoint Art & Design Inc.** *http://www.americanneedlepoint.com/* This site is dedicated to needlepoint, custom canvases, and accessories. [Exp. #181.]

**Animalhouse** *http://www.animalhouse.com/default.htm* A free Internet service for, by, and about college students and college life. [Exp. #183.]

**Baby Center** *http://www.babycenter.com* The Web's leading resource for new and expectant parents. [Exp. #182.]

**Bagheera** *http://bagheera.com* A Web site for endangered species. [Exp. #183.]

**Blue Bell Ice Cream** *http://www.bluebell.com/* Blue Bell Creameries makes the best ice cream in the country. [Exp. #183.]

**Body Sculpture** *http://www.geocities.com/eureka/8158/spectrum.html* Unique, all natural slimming lotion designed to eliminate love handles and thunder thighs. [Exp. #181.]

**Eastern Connecticut's Virtual Community** *http://www.easternct.com/* Eastern Connecticut's community resource and business marketing cooperative. [Exp. #183.]

**Eyegive** *http://www.eyegive.com* The eyegive service offers individuals a simple, free opportunity to transform the way they support their favorite causes or charities into a daily, almost instantaneous activity. [Exp. #181.]

**Final Solution Dog Training** *http://www.dog-training.com/* Dog training obedience classes for puppies and adult dogs. [Exp. #182.]

**Garden Escape** *http://www.garden.com* Seasonal scentsations. [Exp. #181.]

**Hidden Meanings** *http://www.hiddenmeanings.com/* Matches ancient writings with scientific discoveries. [Exp. #183.]

**HouseNet** *http://www.housenet.com/* All about your home and garden. [Exp. #183.]

**interAntiques** *http://interantiques.com/* International Web site about art, antiques, and antiquities. [Exp. #182.]

**Knowledge Circles** *http://www.highvib.org/knowcirc.htm* Tune in to the spiritual communities of the Aquarian Age. [Exp. #181.]

**Merriam-Webster** *http://www.m-w.com/dictionary.htm* Merriam-Webster's online, searchable WWWebster Dictionary. [Exp. #182.]

**monclovaNET** *http://www.monclovanet.com/* Informacion general de la ciudad, y un directorio comercial con las mejores empresas y prestadores de servicio de Monclova, Coahuila, Mexico. [Exp. #183.]

**Pakistan Channel On DalNet** *http://pakistan-dal.net/* For Pakistanis all over the world. [Exp. #183.]

**PETA** *http://www.jesus-online.com* Hoping to make Christians the latest converts to vegetarianism. [Exp. #181.]

**Precious Impressions Online** *http://www.preciousimpressions.com/* Distributor of the worlds most creative, personalized, and unique keepsake ideas for infants and children. [Exp. #183.]

**Professional Speakers Online** *http://www.prospeak.net/* A directory of professional speakers with video auditions. [Exp. #182.]

**Pure Garlic Juice** *http://www.garlicjuice.com/* [Exp. #183.]

**Trinity Web Sites** *http://surf.to/trinity* Links to Christian Web sites, categorized for your convenience. [Exp. #181.]

**Truckers Web Site** *http://www.800-459-omni.com* Featuring a truckers chat room that lets drivers keep in touch with each other and family, and a forum where a driver can post a message that will be read by other drivers. [Exp. #182.]

**Unified Windows Doors And Siding** *http://www.unifiedwindows.com/* Home improvements. [Exp. #183.]

**Webiran** *http://www.webiran.com/* Iran laws and documents. [Exp. #183.]

## Personal Home Pages

**Adorable Toshiba Libretto** *-http://www.cerfnet.com/~adorable/libretto.html* The latest news, links, and information on the Toshiba Libretto, a 2-lb. mini-notebook. [Exp. #182.]

**Dolls A Plenty** *http://members.tripod.com/~dollsaplenty/* Dolls and toys collectables. [Exp. #183.]

**Gadfly2's Home Page** *http://www.hooked.net/~gadfly2/* [Exp. #181.]

**GPF Avoidance** *http://www.geocities.com/Athens/Aegean/4841/* Century cable gripes, Carl Sagan, Hodgkin's disease, hyperlinks, and more. [Exp. #181.]

**Horace's Villa Web Site** *http://www.humnet.ucla.edu/horaces-villa/* Devoted to the villa and villa poetry of the poet, Q. Horatius Flaccus (Horace). [Exp. #182.]

**Jews Of Cuba** *http://www.mindspring.com/~menorah* [Exp. #182.]

**Khilafah/Caliphate Is The Way To Islam** *http://home.att.net/~kgmowla* 1300 years old Khilafah/Caliphate is the only political system in Islam, and it must be re-established without further delay. [Exp. #181.]

**Kittys On Flame With Rock And Roll** *http://www.kittyfeet.com* Frisco art, rock music, QuickTime, fiction, and more. [Exp. #181.]

**Lee's Home Page** *http://www.twow.com/leeg/* An eclectic site with a surfing theme. Links to surfing, surf conditions, weather, law, software, scuba diving, and Web resources. [Exp. #181.]

**Robotman** *http://www.the-robotman.com* Educational and fun site. [Exp. #181.]

**Silvaro's Foods And Things** *http://people.goplay.com/silvaro/* Recipes and other cool things. [Exp. #183.]

**Welcome To Eddy Arnold's Room** *http://www.geocities.com/~eddy_arnold* Complete Eddy Arnold discography. [Exp. #183.]

**YellowKid.com** *http://www.yellowkid.com/* Information on the Yellow Kid, yellow journalism, California AIDS Ride, cartoon theatricals, and other stuff! [Exp. #183.]

## Government/ Politics

**Alberta (Canada) Strike Solidarity Page** *http://www.geocities.com/CapitolHill/5202/cargill.html* Get updated labor news. Check out our campaign for anti-scab legislation. [Exp. #182.]

**Berkeley Citizens Action** *http://www.jps.net/bca* The municipal electoral coalition that has organized Berkeley progressive politics for the last two decades. [Exp. #181.]

**California Trade And Commerce Agency, Division Of Tourism** *http://gocalif.ca.gov* [Exp. #181.]

**Democracy Direct** *http://www.marinternet.com/rknox/car15.html* Reclaiming democratic representative government by giving the national and state electorates a meaningful and direct voice (not the last word) in state and national government. [Exp. #181.]

**Library Of Congress** *http://www.loc.gov* [Exp. #181.]

**May Day On the Web 1998** *http://www.accessweb.com/mayday/* Workers fight for human rights. [Exp. #181.]

**Nuclear Age Peace Foundation** *http://www.wagingpeace.org/* Home of Abolition 2000. [Exp. #181.]

## Arts

**American Photographer In Spain** *http://www.geocities.com/Soho/Gallery/5718/feria.html* Images of The Spring Fair (La Feria) in Spain! [Exp. #181.]

**Art-Smart** *http://www.art-smart.com* An easy method for an artist or gallery to showcase their artwork in a fully searchable database of art on the Web. [Exp. #182.]

**ArtsLink Australia** *http://www.artslink.org.au/* Professional performing and entertainment site. [Exp. #181.]

**Artuframe** *http://www.artuframe.com/* The world's largest online art and framing gallery featuring discounted artworks, mats, framing services, and other art-related products. [Exp. #182.]

**Cannonball Express** *http://www.best.com/~canonbal* A video project-in-progress about urban firestorms, fire safety, and environmental issues. [Exp. #182.]

**Dean Garner Impressions** *http://deangarner.com/* Military aviation photography. [Exp. #183.]

**Filipino American Arts Exposition** *http://primaveradesign.com/faae.html* Shows this year's schedule of festival and other events. [Exp. #181.]

**The Lodge** *http://www.thelodge.com/* A cyber-retreat for authors, artists, and creative businesses. [Exp. #183.]

**Mid-Atlantic Center For The Arts** *http://www.capemay.mac.org* In Cape May, NJ. Year-round activities to delight visitors of all ages. [Exp. #183.]

**Mildrey Guillot** *http://www.mildreyguillot.com/* Cuban artist Mildrey Guillot's personal online exhibit. [Exp. #183.]

**One Art World** *http://www.oneartworld.com* A free Web-based art gallery exhibiting artworks by contemporary, distinguishing artists. [Exp. #181.]

**PaintingsDirect.com** *http://www.paintingsdirect.com/* A new way to find and buy paintings. [Exp. #181.]

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| 3D 2000 Pro 2/4 MB | $39.99/$46.99 |
| Viper 4 MB SGRAM 128 Bit AGPorPCI | $74.99 |
| Fire GL 1000 Pro 4/8 MB | $106.99/$136.99 |
| 3D Pro Turbo PC2TV (8 MB) | $96.99 |
| All-In-Wonder 4 MB | $114.99 |
| All-In-Wonder Pro 4/8 MB | $197.99/$231.99 |
| Productiva 8 MB | $67.99 |
| Millinium II 8 MB WRAM | $154.99 |
| Millinium II 4 MB SGRAM | $55.99 |

## Motherboards w/CPU

| | |
|---|---|
| Klamath PII 233 | $229.99 |
| Klamath PII 266 | $249.99 |
| Klamath PII 300 | $349.99 |
| Klamath PII 333 | $449.99 |
| Klamath PII 350 | $549.99 |
| Klamath PII 400 | $769.99 |
| Klamath PII 450 | $CALL |
| MMX 200 w/ 512k | $140.99 |
| MMX 233 w/ 512k | $148.99 |
| AMD K-6 200 | $103.99 |
| AMD K-6 233 | $112.99 |
| AMD K-6 266 | $139.99 |
| AMD K-6 300 | $195.99 |
| AMD K-6II 266 3D | $186.99 |
| Cyrix MX 200 | $89.99 |
| Cyrix MX 233 | $93.99 |
| Cyrix MX 266 | $119.99 |
| Cyrix MX 300 | $139.99 |

## Memory

| | | |
|---|---|---|
| *Please call for current prices* | 4 MB 30 pin 70 nS | $8.99 |
| | 4 MB 72 pin / EDO | $8.99/$7.99 |
| | 8 MB 72 pin / EDO | $11.99/$10.99 |
| | 16 MB 72 pin / EDO | $13.99/$11.99 |
| | 32 MB 72 pin / EDO | $24.99/$23.99 |
| | 64 MB 72 pin / EDO | $CALL/$89.99 |
| | 16 MB SDRAM / PC 100 MHz | $15.99/$15.99 |
| | 32 MB SDRAM / PC 100 MHz | $24.99/$35.99 |
| | 64 MB SDRAM / PC 100 MHz | $63.99/$75.99 |
| | 128 MB SDRAM / PC 100 MHz | $124.99/$154.99 |

## Hard Drives

| | |
|---|---|
| 2.1 / 3.2 GB EIDE | $107.99/116.99 |
| 4.3 / 6.4 GB EIDE | $127.99/159.99 |
| **Ultra IDE < 10 mS** | |
| 2.1 / 3.2 GB WD | $112.99/121.99 |
| 4.3 / 6.4 GB WD | $138.99/176.99 |
| 4.3 / 6.4 GB Maxtor | $126.99/162.99 |
| 4.3 / 6.4 GB Qntm | $147.99/168.99 |
| 8.4 GB Maxtor UDMA | $222.99 |
| 11.5 GB Maxtor UDMA | $279.99 |

## CD-ROMs & Sound Cards

| | |
|---|---|
| 24x / 32x EIDE CD-ROM | $39.99/$46.99 |
| Toshiba 24x / 32x CD-ROM | $49.99/$59.99 |
| SoundBlaster PCI 3D Wave Table | $35.99 |
| SoundBlaster AWE 64 | $52.99 |
| Mitsumi 2x8 CD Writer | $252.99 |
| DVD Toshiba Magic MPEG2 Kit | $189.99 |
| PCI Sound Card | $11.99 |

## July Specials

**17" .27 dp Monitor** $219.99

**56k FaxMODEM** $33.99

**14" .28 dp Monitor** $98.99

**Diamond Stealth 3D 2000 Pro** $41.99

**32 MB SDRAM** $24.99

**HP DeskJet 670C** $189.99

**Color Scanner 30 bit, 4800 dpi** $53.99

## Multimedia Kits

24x CD-ROM $57.99
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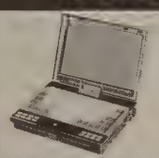
32x CD-ROM $67.99
Sound Card
Speakers
1500 CD Titles

24x CD-ROM $102.99
SndBlst AWE64
Speakers
1500 CD Titles

32x CD-ROM $114.99
SndBlst AWE64
Speakers
1500 CD Titles

## Note Books w/ Multimedia



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*800x600*
*2.1 GB HDD*
*20x CD-ROM*
*Built-in TouchPad*
*16 bit Sound*
*1.44 MB FDD*
*Carrying case*

**12.1" DScn**
MMX 200 $1,229
MMX 233 $1,249

**12.1" TFT**
MMX 200 $1,279
MMX 233 $1,329

**14.2" TFT**
MMX 200 $1,729
MMX 233 $1,779

MMX intel inside

## Bare Bone

- *Motherboard w/ 512k Cache*
- *16 MB SDRAM 10nS*
- *1.44 MB FDD*
- *1.2 GB HDD*
- *SVGA Video Card*
- *Digital Case*
- *Keyboard*

**Cyrix MX 200 $259**

| | |
|---|---|
| Intel MMX 200/233 | $309/$329 |
| AMD K-6 200/233 | $277/$289 |
| Cyrix MX 200/233 | $259/$269 |

## Don't Miss

- *Motherboard w/ 512k Cache*
- *32 MB SDRAM 10nS*
- *1.44 MB FDD*
- *2.1 GB HDD*
- *SVGA Video Card*
- *24x CD-ROM*
- *Digital Case*
- *Keyboard*

**AMD K-6 200 $339**

| | |
|---|---|
| Intel MMX 200/233 | $379/$389 |
| AMD K-6 233/266 | $349/$369 |
| Cyrix MX 233/266 | $329/$349 |

## Un Believable

- *Motherboard w/ 512k Cache*
- *32 MB SDRAM 10nS*
- *1.44 MB FDD*
- *2.1 GB HDD*
- *SVGA 2 MB Video Card*
- *24x CD-ROM*
- *Yamaha Full Duplex PnP Sound System*
- *Speakers*
- *Digital Case*
- *Keyboard*

| | |
|---|---|
| Intel MMX 200 | $399 |
| Intel MMX 233 | $409 |
| AMD K-6 266 | $389 |
| AMD K-6 300 | $409 |
| Cyrix MX 233 | $349 |
| Cyrix MX 266 | $369 |

**Intel MMX 233 $409**

## Crazy Deal

**Intel PII 266 $599**

- *Motherboard w/ 512k Cache*
- *32 MB SDRAM 10nS*
- *1.44 MB FDD*
- *3.2 GB UDMA HDD*
- *AGP/PCI 4 MB Video Card*
- *32x CD-ROM*
- *Yamaha Full Duplex PnP Sound System*
- *Speakers*
- *1500 CD Titles*
- *Digital Case*
- *56k FaxMODEM*
- *Win95 Keyboard*
- *Mouse*

| | |
|---|---|
| Intel P II 233 | $579 |
| Intel P II 300 | $719 |
| AMD K-6 300 | $469 |
| K-6 II 266 3D | $489 |
| Cyrix MX 266 | $429 |
| Cyrix MX 300 | $449 |

## Take Me w/ 14" Monitor

- *TX / 440 LX*
- *32 MB SDRAM 10 nS*
- *4.3 GB HDD*
- *AGP/PCI 3D 4 MB Video Card*
- *24x CD-ROM*
- *Yamaha Sound Card*
- *80W Speakers*
- *CD Titles*
- *Win95 Keyboard, Mouse*
- *1.44 MB FDD*
- *56k FaxMODEM w/ Voice*
- *Digital Tower*
- *14" .28 N.I. Monitor*

| | | |
|---|---|---|
| Intel | MMX 166 | $529 |
| | MMX 200 | $549 |
| | MMX 233 | $569 |
| | P II 233 | $679 |
| | P II 266 | $699 |
| | P II 300 | $799 |
| AMD | MMX K6 200 | $519 |
| | MMX K6 233 | $529 |
| Cyrix | MII 200C | $509 |
| | MII 233C | $519 |
| | MII 266C | $529 |

INTERNET READY **Intel PII 233 $649**

## Work Station w/ 15" Monitor

- *TX / 440 LX*
- *32 MB SDRAM 10 nS*
- *4.3 GB HDD*
- *AGP/PCI 3D 4 MB Video Card*
- *32x CD-ROM*
- *SounBlaster AWE64*
- *200W Speakers*
- *1500 CD Titles*
- *Win95 Keyboard, Mouse*
- *1.44 MB FDD*
- *56k FaxMODEM w/ Voice*
- *Digital Tower*
- *15" Monitor (SVGA)*

| | | |
|---|---|---|
| Intel | MMX 200 | $639 |
| | MMX 233 | $649 |
| | P II 233 | $739 |
| | P II 266 | $769 |
| | P II 300 | $879 |
| AMD | MMX K6 233 | $619 |
| | MMX K6 300 | $659 |
| Cyrix | MII 233C | $589 |
| | MII 266C | $619 |
| | MII 300C | $639 |

INTERNET READY **Intel PII 300 $879**

## P-II Only w/ 17" Monitor

- *Asus P2L97 Intel 440 LX or INTEL 440 BX for PII 400*
- *64 MB SDRAM*
- *6.4 GB UDMA ATA HDD*
- *Productiva 8 MB Video Card*
- *32x CD-ROM*
- *SounBlaster AWE64*
- *600W Speakers*
- *1500 CD Titles*
- *Win95 Keyboard, Mouse*
- *1.44 MB FDD*
- *56k FaxMODEM w/ Voice*
- *Digital Tower*
- *17" Monitor (SVGA)*

| | |
|---|---|
| Intel P II 233 | $899 |
| Intel P II 266 | $919 |
| Intel P II 300 | $999 |
| Intel P II 333 | $1,099 |
| Intel P II 350 | $1,199 |
| Intel P II 400 | $1,369 |

INTERNET READY **Intel PII 400 $1,369**

All systems come with one year parts and labor warranty. Prices and product availability are subject to change without notice. Call for current prices. We are not responsible for any typographical errors. 20% restocking fee for returns. Prices reflect 3% cash discount. * Financing is based on approved credit. Each brand name is the trademark of the respective manufacturer. Limit right reserved per family, per visit, on cash sale only.

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**Peter Findlay Gallery** *http://www.findlay.com/* Art gallery. [Exp. #181.]

**Rising Stars** *http://www.kodak.com/go/motion* This Web news-letter of the Kodak Woldwide Emerging Filmmaker Program is part of a broader initiative designed to provide practical support for people at the beginning of their careers. [Exp. #183.]

**Ted Alvy Cosmos Topper Home Page** *http://pages.prodigy.com/FNJD74A* Art of '60s L.A. underground radio, rebop, beatniks, hipsters, hippies, zoot horn rollo. [Exp. #183.]

## Entertainment/ Leisure

**Abracadabra! Aquaventures' Home Page** *http://www.abracadabra.saipan.com/* Scuba diving, Saipan. [Exp. #183.]

**The Adrian Empire** *http://192.41.53.160/* A medieval recreation group, featuring live steel combat. Attain Knighthood in three disciplines. [Exp. #181.]

**Agente De Viajes VIP En Cuba** *http://www.cubavip.com/* Private landing, flight tickets, car rental, hotel reservations, mobile phone rental, excursions and much more! [Exp. #183.]

**Alex Fox, Flamenco Guitarist** *http://www.alexfox.com/* Alex Fox has created his own unique style of music, combining classical guitar, flamenco, and pop. [Exp. #181.]

**Alexandria Official Web Site** *http://www.alexandria2000.com/* [Exp. #182.]

**America's Bowling Net** *http://www.anchorman.com/* The most complete bowling Web site on the Net. [Exp. #183.]

**Australian FanSite of Chubby Checker** *http://www.ozemail.com.au/~facerg/chubby.htm* Chubby Checker, the biggest music Web site on the Internet. [Exp. #182.]

**The Blarney Stone** *http://members.tripod.com/~iwolff/index-2.html* Award-winning Irish Humorist offers samples of his columns, parodies, essays, and other laugh-out-loud observations. [Exp. #181.]

**Bogota Colombia** *http://www.bogotacolombia.com/* Todo sobre la capital de Colombia—The city, the enterprises, and the people of Bogota. [Exp. #181.]

**Cashmere Heights Weddings** *http://www.chc-weddings.co.nz* New Zealand's most exclusive wedding and honeymoon company. [Exp. #181.]

**Celebrity Sports Gallery** *http://www.celebritysports.com/* Memorabilia store with thousands of autographed items in stock. Plus a full selection of Beanie Babies. [Exp. #183.]

**Chess The Fourth Dimension** *http://chess4d.com/* Four-way, four-person chess game. [Exp. #182.]

**Collection Of Fine Properties** *http://www.cfpbreck.com/* Vacation lodging in Breckenridge, CO. [Exp. #183.]

**Costa Blanca Directory** *http://cb2000.net/* Everything you need to know about business and holidays on the Costa Blanca, Spain. [Exp. #183.]

**Creativemusic.com** *http://www.creativemusic.com* Online sheet music store and so much more! [Exp. #182.]

**Dee Zaster, Esq.** *http://members.tripod.com/~russmccor/* Guess who just entered the race for Governor of California? Don't miss DZ's campaign to drive Pete Wilson crazy and out of office. [Exp. #181.]

**Dial-A-Joke** *http://www.howdyneighbor.com/batteryman/ra.htm* The old recordings are back and on the Internet. Stuff recorded up to 20 years ago. [Exp. #181.]

**Discover Israel Inside Travel Guide** *http://www.ddtravel-acc.com/* A leading comprehensive, free travel guide touching all aspects of travel in Israel. [Exp. #183.]

**Duffer's Attic** *http://duffersattic.com/* Golf-related products. [Exp. #183.]

**Entertainers' Network** *http://www.entertainers.net* Bringing a whole new concept to the world of booking an act for that special event. [Exp. #182.]

**Exploration Network** *http://www.exn.ca/* The Discovery Channel online. [Exp. #182.]

**Explore Nova Scotia** *http://explorens.rivendell.ns.ca/* One-stop guide to exploring the Province of Nova Scotia, Canada. What to see, how to get there, where to stay, and things to do! [Exp. #181.]

**Find A Joke** *http://www.find-a-joke.com* A large collection of all kinds of jokes and other humor. [Exp. #181.]

**Golf China** *http://nezco.com* Golfing in China: Beijing, Kuming, Dalian, Shanghi, and Hangzhou. [Exp. #183.]

**Green Iguana Bar & Grill** *http://www.greeniguana.net/* Tampa Bay's favorite watering hole. [Exp. #183.]

**Guaco Home Page** *http://guaco.com.ve/* Musical band. [Exp. #183.]

**Hillbilly Hoedown** *http://www.hillbillyhoedown.com/* The happiest show In the Smokies. [Exp. #181.]

**Jazz/Saxophone** *http://www.jazzcorner.com/harper.html* Jazz musician's site contains soundbytes, photos, fan club info, purchase CDs, and more. [Exp. #182.]

**Klassikopen** *http://www.klassikopen.de/* A site for fans of classical music. [Exp. #183.]

**KROQ 106.7** *http://www.cosmoslink.net/~kroq* Lists of DJs, events, and much more. [Exp. #181.]

**KZ Mobile Entertainment Services** *http://pw2.netcom.com/~lilalynn/KARAOKEZONE.html* KJs/DJs, vocal acts, photographer, etc.; karaoke show listings and equipment distributor. [Exp. #182.]

**Louisiana Festivals Online** *http://www.lafest.com/* Web guide (where and when) for Louisiana festivals. [Exp. #183.]

**Love Psychic Ariele** *http://www.ariele.com/* 1-888-289-2681 Clairvoyant, phone readings, and love magic. [Exp. #181.]

**Mark L. Falconer Film Page** *http://members.aol.com/MFalc1/home.html* Reviews of currently released films and videos. Occasional commentary on the industry. [Exp. #181.]

**Mountain Lodging** *http://www.mountain-lodging.com/* Source for locating rental cabins, chalets, and bed and breakfast. [Exp. #183.]

**The Official Seinfeld Web Site** *http://www.seinfeld.com* [Exp. #182.]

**O.K. Corral** *http://www.agrov2.com/okcorral* A theme hotel, resort, and cattle show room. [Exp. #183.]

**Online Hotel Reservations** *http://www.chms.net/* [Exp. #182.]

**Outdoor Adventure** *http://www.kjaerulf.dk/* Everything for the outdoor adventure. [Exp. #182.]

**PC GAMES Realm** *http://www.geocities.com/~mechdig* The latest news, reviews, cheat codes, and much more from your favorite PC games. [Exp. #182.]

**Phoenix Sports** *http://www.phoenixsports.com/* The Internet's top sports handicapping service. [Exp. #183.]

**Proline Fishing Products** *http://www.prolinefishing.com* Bass fishing lures. Fresh water, custom quality, for novice and professional anglers. [Exp. #181.]

**Pub Trek Adventures** *http://pubtrek.com/* Pub crawling in Australia. [Exp. #183.]

**Puro Tejano En Vivo** *http://www.purotejano.com* Official Web site for Puro Tejano En Vivo television show. [Exp. #182.]

**Rosewood Music Publishing & Sales** *http://www.rosewoodmusic.com* We publish and promote independent music artists and writers. [Exp. #181.]

**Royal Crown Guest House** *http://members.aol.com/jmain10478/royalcrown.html* Guest house. [Exp. #182.]

**San Diego Regional Online Guide** *http://www.sandiegolocal.com/* Covering events, theater, real estate, businesses, and communities in the Greater San Diego Area. [Exp. #182.]

**San Francisco Brewed** *http://members.xoom.com/sfbrewed* The finest unsigned and indie bands of the Bay Area! We're also RealAudio enhanced! [Exp. #181.]

**San Jose's Technology Museum Of Innovation** *http://www.thetech.org* [Exp. #182.]

**Searching for Olenfat** *http://www.angelfire.com/biz/ballcaps* Laughs and chuckles. [Exp. #183.]

**Spill The Beanies** *http://www.spillthebeanies.com/* Beanie Babies site—buy, sell, and trade. [Exp. #183.]

**Spirit Mall** *http://www.spiritmall.com* A site designed for cheerleaders, dancers, mascots, and coaches. Find the latest products, services, and fun contests! [Exp. #182.]

**Star Theatres Online** *http://www.star-theatres.com/* Show times, movie information, and more. [Exp. #182.]

**Star Trek Universe** *http://www.uss-1701-e.com/* Covering all four shows with features that include a gallery, gossip, news, and more. [Exp. #181.]

**Starcraft Extractor** *http://www.fortunecity.com/underworld/starcraft/505/main.htm* Everything you need for Starcraft: news, patches, maps, files, cool pictures, and more. [Exp. #183.]

**Street Sounds** *http://www.street-sounds.com* African-American acappella quintet performing traditional, contemporary, and original music. [Exp. #183.]

**Telery** *http://www.telery.com/* A place to chat, play games, and have fun with your friends! Live chat, a casino, online games, free email and home pages! [Exp. #181.]

**Ticketvision** *http://ticketvision.com/* Online ticket service for premium seating to all events nationwide. [Exp. #182.]

**Total Conversions** *http://www.totalconversions.com/* Total conversions for all games like Duke Nukem 3D, Shadow Warrior, Blood, Quake, Quake 2, and many more. [Exp. #181.]

**Travel Guide Of USA** *http://www.ustravellink.com/* A complete travel source. [Exp. #183.]

**Travel In Asia** *http://www.ziegworld.org/* Pictures from countries around Asia. [Exp. #182.]

**Travel With A Cause** *http://www.miramed.com/* Travel in Russia, China, and Nepal. [Exp. #181.]

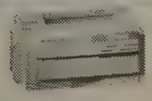
**Underworld Software** *http://www.uwgames.com/* Try a free demo of BloodBath and you could win $500! [Exp. #181.]

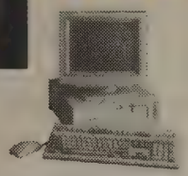
**Virtual Zone** *http://www.mnet.fr/virtualz* Astuces and cheats for Playstation, Saturn, N64, PC. [Exp. #181.]

**Willy Wonka Candy Factory** *http://www.wonka.com* Wonka. com enables kids of all ages to navigate through the factory on the WONKAvator. [Exp. #182.]

**Zap Theatre** *http://www.zap.dk/ofr.html* A place for the small theatres of the world. [Exp. #182.]

# One-stop shopping, Internet access.





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| 17" VGA & SVGA | $99 |
| 20" & 21" VGA & SVGA | $129 |

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*Includes all cables, materials and connectors*

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## SPECIAL ... $395 LIMITED QUANTITY

Monitor Sold Separately

*Intel Pentium 100MHz, Mini-Tower Case, 32MB RAM, 2GIG Hard Disk, PCI VGA Card, 104 Keyboard, Logitech Mouse Pad, 1.44 Floppy Drive, Windows 95.*

| | |
|---|---|
| Mono VGA Monitor | $49 |
| Mono TTL Monitor | $75 |
| USR ISDN Internal | $125 |
| Motorola ISDN Bit Serfer Pro External | $125 |
| Motorola ISDN Terminal 56K Ext. | $100 |
| 4X External CD ROM (MAC) | $125 |

## COMPAQ PRESARIO NOTEBOOKS

| Model | Processor | RAM | HD/CD | Screen | MOD | |
|---|---|---|---|---|---|---|
| 1681 | Pent. 233MMX | 48MB | 3.2G/20X | 12.1TFT | 56K | $2599 |
| 1680 | Pent. 200MMX | 32MB | 2.1G/20X | 12.1TFT | 56K | $1799 |
| 1622 | Pent. 233MMX | 32MB | 3.2G/20X | 12.1HPR | 56K | $1899 |
| 1621 | Pent. 233MMX | 32MB | 3.2G/20X | 12.1TFT | | $1699 |
| 1210 | MGX.180 | 32MB | 3.2G/20X | 12.1TFT | 56K | $1399 |
| 1220 | Pent. 200MMX | 32MB | 2.1G/20X | 12.1DHPA | 33.6 | $1499 |

## CBC COMPUTERS

Intel Original
P2 System Board
64MB RAM, 1.44 Drive
104 KB, Logitec Mouse
4.2GIG Hard Disk, 56K Modem
ATI PCI VGA Card 2MB
24X CD-ROM, 16 Bit Sound Card
70 Watt Speaker, 17" MTR
Windows 95

| | |
|---|---|
| P2-233 | $1395.00 |
| P2-266 | $1450.00 |
| P2-300 | $1550.00 |
| P2-333 | $1795.00 |
| P2-400 | $2195.00 |

## APPLE COMPUTERS

### G3 PowerMacs

| | | |
|---|---|---|
| G3/300MT | 128/2-4G/24X/6MV | $4199 |
| G3/300MT | 64/4G/24XCD | $2979 |
| G3/266MT | 128/4G/24XCD | $3199 |
| G3/266MT | 32/6G/24XCD/Zip/M | $2199 |
| G3/266DT | 32/4G/24XCD/Zip | $1799 |
| G3/233MT | 32/4G/24XCD/56K | $1799 |
| G3/233DT | 32/4G/24XCD | $1499 |

### PowerMacs

| | | |
|---|---|---|
| 9600/350 | 64/4GIG/24XCD/Zip | $2499 |
| 9600/300 | 64/4GIG/24XCD/Zip | $2199 |
| 9600/200MP | 32/4GIG/12XCD | $1799 |
| 9600/233 | 32/4GIG/12XCD | $1799 |
| 9600/200 | 32/4GIG/12XCD | $1699 |
| 8600/300 | 32/4GIG/24X/Zip | $1799 |
| 8600/250 | 32/4GIG/24X/Zip | $1599 |
| 8600/200 | 32/2GIG/12X/Zip | $1499 |
| 7300/200 | 32/2GIG/12XCD | $1099 |
| 7300/180 | 16/2GIG/CD/DOS | $1499 |
| 7300/180 | 16/2GIG/12XCD | $999 |
| 4400/200 | 32/2G/CD/OFF | $999 |
| 4400/200 | 32/2G/CD/PENT | $1199 |
| 6500/300 | 32/4G/12XCD/33.6F/AVID | $1399 |
| 6500/250 | 32/4G/CD/56K | $999 |
| 6500/225 | 32/3G/CD/33.6 | $899 |

## TOSHIBA NOTEBOOKS

| Model | Processor | RAM | HD/CD | Screen | |
|---|---|---|---|---|---|
| 50CTLIBRTO | P-75MHz | 16MB | 772MB | 6.1TFT | $725 |
| 70CTLIBRTO | P-120MHz | 16MB | 1.5GB | 6.1TFT | $1650 |
| 100CTLIBRTO | P-166MHz | 32MB | 2MB | 7TFT | $2395 |
| 310CDS | P-200MMX | 32MB | 2GB+16X | DSC | $1675 |
| 310CDT | P-200MMX | 32MB | 2GB+16X | TFT | $2185 |
| 320CDS | P-233MMX | 32MB/56K | 4GB+20X | 12.1DSC | $1899 |
| 320CDT | P-233MMX | 32MB/56K | 4GB+20X | 12.1TFT | $2450 |
| 440CDX | P-133MMX | 16MB | 1.34GB+10X | 12.1FASTSCN | $1399 |
| 445CDT | P-133MMX | 16MB | 1.34GB+10X | 12.1TFT | $1600 |
| 460CDX | P-166MMX | 32MB/33.6K | 2.02GB+10X | 12.1DSCN | $1600 |
| 470CDT | P-200MMX | 32MB/33.6K | 2.01GB+10X | 12.1TFT | $2450 |
| 480CDT | P-233MMX | 32MB/56K | 3.8GB+10X | 12.1TFT | $2600 |
| 300CT | P-133MMX | 32MB/33.6K | 1.51GB | 10.4TFT | $1450 |
| 320CT | P-266MMX | 32MB/56K | 3.8GB | 10.4TFT | $3200 |
| 520CDT | P-166MMX | 32MB/33.6K | 2.02GB+10X | 12.1TFT | $2495 |
| 530CDT | P-166MMX | 32MB/33.6K | 2.02GB+10X | 12.1TFT | $2900 |
| 550CDT | P-266MMX | 32MB/56K | 4.7GB+20X | 12.1TFT | $3750 |
| 730XCDT | P-150MMX | 16MB/28.8K | 2.0GB+10X | 12.1TFT | $1550 |
| 740CDT/3G | P-166MMX | 16MB/28.8K | 3.0GB+10X | 13.3TFT | $2600 |
| 750CDM | P-233MMX | 32MB/56K | 4.7GB+20X | 13.3TFT | $4800 |
| 750DVD | P-233MMX | 64MB/56K | 4.7GB+DVD | 13.3TFT | $5200 |
| 780CDM | P-II 266MMX | 64MB/56K | 5.1GB+20X | 13.3TFT | $4999 |
| 780DVD | P-II 266MMX | 64MB/56K | 5.1GB+DVD | 13.3TFT | $5299 |

## HEWLETT PACKARD 4000

**HP LaserJet Printer**

- 600dpi • 4MB RAM • 33MHz processor
- MIO network expansion slots
- HP PCL 6 printer language

$1075 HPC3916A

| | |
|---|---|
| HP LaserJet 6LXI | $399 |
| HP LaserJet 6MP 8ppm | $875 |
| HP LaserJet 6P 8ppm | $CALL |
| HP LaserJet 4V/MV 11x17 | $1399/2150 |
| HP LaserJet 5Si 11x17 | $2450 |
| HP LaserJet 5SiMX 11x17 | $3100 |
| HP LaserJet 4000/4000SE | $1075 |
| HP LaserJet 4000T/4000N/4000TN | $CALL |
| HP Color LaserJet 5/5M | $CALL |
| HP DeskJet 670 | $205 |
| HP DeskJet 1000CXI/CSE | $CALL |
| HP DeskJet 1600C | $CALL |
| HP DeskJet 1600CN | $CALL |
| HP DeskJet 1600CM | $CALL |

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# COMPUTER BUSINESS CENTER

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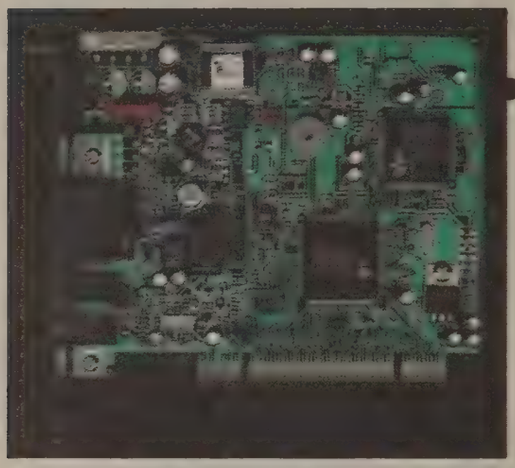
# Product Announcements



## PC Hardware

### CyberBullet PCI 56RVP Modem

This PCI bus-based 56K modem will provide high-speed Internet access and full voice and fax capabilities. It is Windows 95/98- and Windows NT-compliant. It also has ASVD/DSVD functionality and supports ITU-T standards, including the new V.90 standard, which maximizes compatibility for 56K modem connections. CyberBullet is also backwardly compatible, and supports older standards such as V.34 to allow the highest possible data speeds when connected to older modems. This plug-and-play modem installs into any 32-bit PCI bus expansion slot. It provides 33MHz PCI clock support, which adheres to the new Intel architecture design initiatives and ensures future compatibility with next generation PCs. Full duplex, speakerphone and a broad range of voice features gives users complete video conferencing capabilities. Built-in V.80 technology provides videophone capability for PC's equipped with a video camera and sound card. (Estimated street price, $99) E-Tech Research, Inc. 47400 Seabridge Dr., Fremont, CA 94538. (510)438-6700, *www.e-tech.com* .

### CONTACT Handheld PC

This Microsoft Windows CE 2.0 handheld PC includes a wireless modem, providing access to email, the Internet, and corporate information systems. It comes equipped with Microsoft Word, Excel, PowerPoint, Internet Explorer, email inbox, and a host of PIM applications. Weighing less than 22oz., it offers an array of communications features, including: a full QWERTY-style keypad, serial/VGA port, type II PC card slot, infrared port, integrated 19.2 kbps wireless modem, 14.4 kbps wireline/9.6 kbps fax modem, 640 x 240 LCD display with backlighting, and integrated microphone/speaker for memo recording. It also features custom Windows CE applications that guide the user through the wireless subscription process and facilitates the modem configuration and operation. ($1000 plus activation) CONTACT is available from Mobile Planet, 1-800-MPLANET or *www.mplanet.com* . Novatel Wireless, Inc. *www.novatelwireless.com* or 1-888-888-9231.

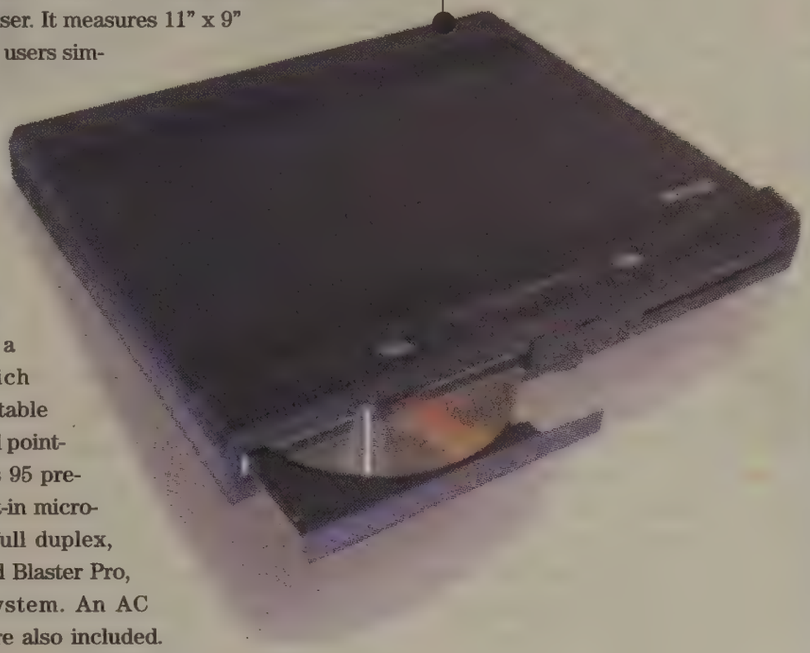
### UT Oncore GPS

This is a complete GPS receiver and antenna integrated into a single package. UT Oncore is intended for use in harsh environments and will output a serial data stream and a highly accurate one-pulse-per-second signal (with Time RAIM—Time Receiver Autonomous Integrity Monitoring) for use in the precision timing and frequency industry. By combining the receiver and antenna in a single weatherproof housing, the remote receiver eliminates RF signal-loss problems and the need for expensive coaxial cable runs from towers or rooftops. Instead, a low-cost, twisted-pair data cable connects the timing device to its host system. The combination of Motorola's UT Oncore GPS receiver technology and rugged packaging provide an easy-to-install and cost-effective solution for precision timing and frequency devices used in telecommunications infrastructure, computer networking, and other timing applications. The UT Oncore is capable of tracking eight satellites simultaneously, which typically is the maximum number of satellites in view at any given time. Motorola's GPS Products, 1-888-298-5217. *www.oncore.motorola.com* .

# Notebook Hardware

## OpenNote 786 Convertible PC

This new family of small footprint 166-266MHz desktop computers can easily be converted to a notebook PC. The new systems look like a standard notebook computer without a keyboard, screen, or touchpad—all of which can be added when needed by the user. It measures 11" x 9" x 2", weighs just 4lbs, and will allow users simply to hook up their monitors and keyboards to the Kiwi portable desktop either through standard cables or an optional port replicator. When users require a more mobile solution they can convert the desktop unit to a high-performance notebook PC. Kiwi Computer offers a "convertible upgrade kit," which includes an active-matrix TFT portable display and keyboard with touchpad pointing device. It comes with Windows 95 preloaded. Audio features include built-in microphone and stereo speakers; and full duplex, 16-bit audio, compatible with Sound Blaster Pro, Ad Lib, and Windows Sound System. An AC adapter, and Lithium-Ion battery are also included. Kiwi notebooks feature an upgradable, open architecture that uses a host of standard components such as a ZIF socket upgradable CPU; standard low-cost 144 pin SODIMMs; and upgradable standard hard drives. ($950) Kiwi Computer Inc., 2388 Walsh Ave., Santa Clara. (408)492-9188, *www.kiwicom.com* .



## EZ-Gig Data Transfer Utility Kit

A one-click, do-it-yourself hard drive upgrade for notebook computers, the EZ-Gig Data Transfer Utility Kit can transfer the entire contents of a hard drive to a larger-capacity drive without altering any data or settings in one easy step. After the new drive is installed, the system boots exactly as before—no reinstallation or reconfiguration is necessary. By using it you can upgrade the hard drive on a notebook computer in minutes. It provides a direct connection to a new, larger-capacity hard drive through a PC Card interface and proprietary utility software. The upgrade kit comes with Data Transfer Utility Software, an ATA PC Card and cable assembly, and the appropriate high-capacity hard drive in 1.4GB, 2.1GB or 3.1GB sizes. It supports most major operating systems and has been successfully tested for compatibility with most notebooks. The EZ-GIG hard drives are backed by a three-year warranty, and the cable assembly by a lifetime warranty. Toll-free technical support is available. (Prices begin at $429, and vary according to drive size and portable manufacturer and model.) Apricorn at 1-800-458-5448, (619)513-2000, or *www.apricorn.com* .

# Updates

**Adobe Systems Inc.** introduced new converter software for Microsoft Publisher files to allow publishers to easily move up to PageMaker 6.5, and take advantage of its desktop publishing capabilities. Free download at *www.adobe.com/prodindex/pagemaker/main.html* , or call 1-800-422-3623.

**Artisoft Communications Software Group** shipped **i.Share 3.0**, the software that enables up to 32 networked PC users to browse different Web sites at the same time via one connection. (Starts at $129 for the three-user version) Artisoft Communications Software Group, (520)670-7100. *www.artisoft.com* .

**BEI Corp.** released **Ultrabac for NT 5.0** a year 2000 compliant backup program for Microsoft's Windows NT. It is used in thousands of Windows NT networks worldwide protecting mission critical data. ($149 for personal edition; $1,295 for the Enterprise Edition) BEI Corp., (425)644-6000, or visit *www.ultrabac.com* .

**CDW Computer Centers** announced that its e-commerce Web site, www.cdw.com , now boasts automatic price and availability alerts, more product comparisons and advanced searching to help online shoppers sort through computer products. CDW Computer Centers, (847)465-6000, 1-800-797-4239 or, *www.cdw.com* .

**Elemental Software** released **Drumbeat 2.0**, that requires no programming or coding of any kind when developing sites that search and update databases in real time and generate custom pages on-the-fly. ($699) Elemental Software *www.drumbeat.com* or 1-877-DRUMBEAT.

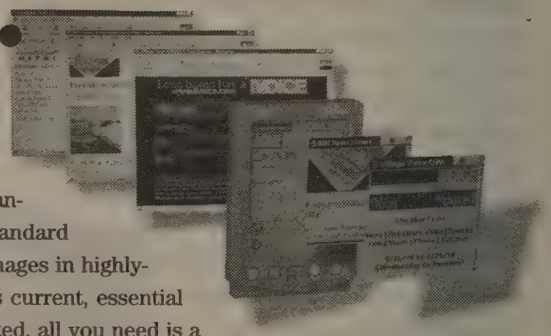
**Foresight Software, Inc.** shipped **Service Management System 8.1**. This company field service and support solution includes enhanced help desk, integrated Graphical Dispatch Board, SiteWare and Enterprise Resource Planning capabilities. ($3,500–5,500) Foresight Software, Inc. (770)206-1000. *www.foresight-esp.com* .

**Maximizer Technologies Inc.** announced its **Pocket Maximizer 5.0**, a customer and contact manager for Handheld PCs running Microsoft Windows CE 2.0. with an Explorer-style interface. It links to Pocket Word, sends email with one click, and synchronizes with desktop PCs. ($69) Maximizer Technologies 1-800-804-6299.*www.maximizer.com , info@maximizer.com* .

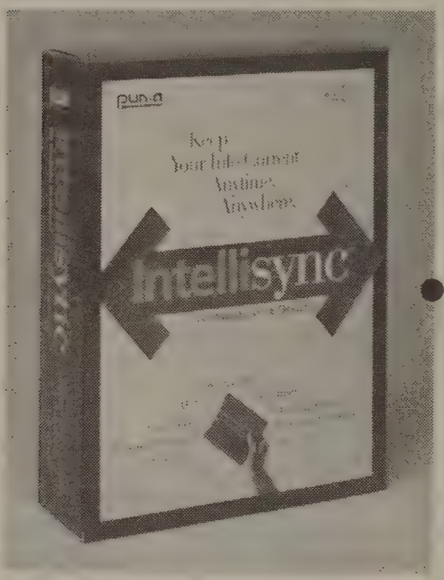
**Multiactive Software Inc.** unveiled **Maximizer 5.0.** a customer and contact management software. Includes a full suite of e-commerce features that enable a user to create a Web site and start accepting orders and inquiries online—in under an hour. ($149, registered users can upgrade for $79.95 until July 31) Multiactive Software Inc. *www.multiactive.com* .

## Mobile Software

### AvantGo Web Client and AvantGo Desktop



This software for mobile professionals extends the reach of corporate intranets and the Web to handheld computers. AvantGo Web Client provides information to workers on-the-go with a highly-efficient Web browser residing on their handheld computer. By simply tapping on hypertext links with a pen, you can quickly scan documents of interest. AvantGo Desktop enables mobile professionals to easily define how sets of HTML pages, called "channels," are managed on their handheld computers. It stores industry-standard HTML and text files, as well as GIF and JPEG graphics images in highly-compressed formats to conserve memory. AvantGo offers current, essential intranet information delivered to your pocket. To get started, all you need is a desktop or laptop computer running Microsoft Windows 95 or NT and a handheld device with its included cradle or docking station. ($99 per seat for corporate users. A free 45-day evaluation is downloadable.) AdvantGo, Inc. (650)638-3399. *www.avantgo.com* .




### Intellisync for Windows CE 2.0

This management software provides users of Windows CE 2.0-based handheld PCs with an easy method for synchronizing data with a variety of PC-based personal information management (PIM), contact management, and groupware applications while continuing to support existing devices for Windows CE 1.0. It also provides a custom filtering feature that allows users to conveniently select and synchronize only the information they want. It supports the new generation of Windows CE-based handheld PCs. Puma's DSX technology is the core of all Intellisync solutions and accurately synchronizes information between popular contact and scheduling applications and mobile devices. ($69.95) Puma Technology, Inc. 1-800-774-PUMA. *www.pumatech.com* .

*continued on page 191*

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2. Hardware Installation/Configuration/Maintenance
3. Software Installation/Configuration/Maintenance
4. Computer Networking

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Western Digital 3.2GB, Ultra ATA.
15" .28 1024x768 Color Monitor.
4MB PCI EDO RAM w/ MPEG
MediumTower Case.
104 Win95 Keyboard.
Logitech Serial Mouse & Mouse Pad.
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15" .28 1024x768 Color Monitor.
4MB AGP EDO RAM TV Output.
ATX MediumTower Case.
Fujitsu 104 Win95 PS-2 Keyboard.
Logitech PS-2 Mouse & Mouse Pad.
Toshiba 24X EIDE CD-ROM.
Yamaha 16bit Stereo Sound Card.
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**Pentium(R) II w/512K L-2.**

**266MHz**

440BX Chipset Mainboard.
64MB SDRAM 100MHz 168-pins.
NEC 1.44MB (3.5") Floppy Drive.
Western Digital 4.3GB, Ultra ATA.
17" .28 1024x768 Color Monitor.
Diamond Stealth 4000, AGP, w/ 4MB.
ATX MediumTower Case.
Fujitsu 104 Win95 PS-2 Keyboard.
Logitech PS-2 Mouse & Mouse Pad.
Toshiba 32X EIDE CD-ROM.
Sound Blaster AWE64 Sound Card.
200 Watt Speakers & Microphone.
56K Modem / Fax w/ Voice.
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Monitor included

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### SP6-300

**Pentium(R) II w/512K L-2.**

**300MHz**

440BX Chipset Mainboard.
64MB SDRAM 100MHz 168-pins.
NEC 1.44MB (3.5") Floppy Drive.
Western Digital 6.4GB, Ultra ATA.
17" .28 1024x768 Color Monitor.
Matrox G1000, AGP, w/ 8MB.
ATX MediumTower Case.
Fujitsu 104 Win95 PS-2 Keyboard.
Logitech PS-2 Mouse & Mouse Pad.
Toshiba 32X EIDE CD-ROM.
Sound Blaster AWE64 Sound Card.
200 Watt Speakers & Microphone.
56K Modem / Fax w/ Voice.
Microsoft Windows'98 w/ Manual.
Multimedia CD Titles.
Monitor included

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**Pentium(R) II, 512K L-2**

**300MHz**

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64MB SDRAM 100MHz 168-pins.
NEC 1.44MB (3.5") Floppy Drive.
Maxtor 8.4GB, Ultra ATA.
17" .28 1024x768 Color Monitor.
ATI All in Wonder Pro, AGP, w/ 8MB.
ATX MediumTower Case.
Fujitsu 104 Win95 PS-2 Keyboard.
Logitech PS-2 Mouse & Mouse Pad.
Toshiba II Generation DVD CD-ROM.
Sound Blaster AWE64 Sound Card.
Speakers Subwoofer & Microphone.
56K V.90 Modem / Fax w/ Voice.
Microsoft Windows'98 w/ Manual.
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**$ 1799**

**PENTIUM II 400MHz**

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### S-SP6-300 / 400

**Pentium(R) II, 512K L-2**

**300MHz**

SuperMicro P6SBS, Mainboard.
128MB SDRAM 100MHz 168-pins.
NEC 1.44MB (3.5") Floppy Drive.
4.0GB, Ultra Wide SCSI Hard Drive.
15" .28 1280x1024 Color Monitor.
Diamond Stealth 4000, AGP, w/ 8MB.
Adaptec Ultra Wide SCSI integraded.
ATX MediumTower Case.
Fujitsu 104 Win95 PS-2 Keyboard.
Logitech PS-2 Mouse & Mouse Pad.
Toshiba 32X SCSI CD-ROM.
3Com 10/100 PCI Network Card.
Software not included.

Monitor included

**$ 1549**

**PENTIUM II 400MHz**

**$ 1949**

### S-SP6-400 / D400

**Pentium(R) II, 512K L-2**

**400MHz**

SuperMicro P6DBS, Dual Mainboard.
128MB SDRAM 100MHz 168-pins.
NEC 1.44MB (3.5") Floppy Drive.
9.0GB, Ultra Wide SCSI Hard Drive.
17" .28 1280x1024 Color Monitor.
Diamond Stealth II, AGP, w/ 8MB.
Adaptec Ultra Wide SCSI integraded.
ATX MediumTower Case w/ 300W.
Fujitsu 104 Win95 PS-2 Keyboard.
Logitech PS-2 Mouse & Mouse Pad.
Toshiba 32X SCSI CD-ROM.
3Com 10/100 PCI Network Card.
Software not included.

Monitor included

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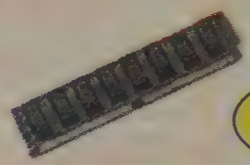
DIMM SDRAM 168pin

32MB



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### WESTERN DIGITAL

4.3GB Ultra ATA
WD34300A
33MB/sec Ultra DMA
11ms Access Time
128K Buffer

$155

### USRobotics COURIER

V. Everything 33.6K

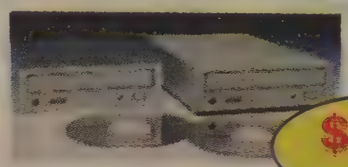
Upgradable to 56K X2
Upgradable to V.90
External Modem

$95

### Toshiba

32X IDE CD-ROM

90ms Access Time
256K Buffer
4.8MB/Sec Transfer



$69

### IOMEGA ZIP

100MB Internal IDE

$75

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Supra Express
56K V.90 Modem

$75

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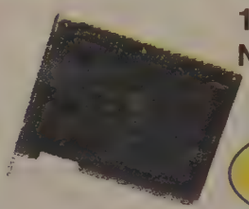
10/100 PCI
Network Card



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### DIAMOND MULTIMEDIA

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AGP, 4MB

$65

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17" Monitor
9017E PRO

16" Viewable area
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Atx form factor

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FIC PT-2011 439TX, ATX, 512K Cache.....$ 89
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### OTHER MODEMS

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### CHASSIS

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Full Twr / Mid Twr Case, Vertical door w/ 230W P/S.....$ 59 / 39
Mini Mid Twr Case, Vertical door w/230W P/S.....$ 29
Mini Twr Case, Vertical door w/ 230W P/S.....$ 22
Mid Twr Case, w/ 230W P/S.....$ 32
Mini Mid Twr / Mini Twr Case, w/ 230W P/S.....$ 25 / 19
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ATX 300 Watt Power Supply.....$ 59
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ATI Rage Pro, 8MB AGP SGRAM.....$ 99
ATI XL, 4MB AGP SGRAM.....$ 85
ATI 3D, 4MB PCI SGRAM.....$ 55

### DIAMOND MULTIMEDIA

Diamond Fire, GL1000 8MB / 4MB AGP SGRAM.....$ 155 / 125
Diamond Monster II, 12MB AGP (Retail).....$ 275
Diamond Monster II, 8MB PCI (OEM).....$ 189
Diamond Monster, 3D 4MB PCI.....$ 109
Diamond Viper, 4MB AGP / PCI SGRAM.....$ 79 / 79
Diamond II, 8MB AGP.....$ 95
Diamond II, 4MB PCI.....$ 85
Diamond Stealth, 3D 3000 2MB PCI VRAM.....$ 75
Diamond Stealth, 3D 4000 4MB AGP.....$ 65
Diamond Stealth, 3D 4MB PCI EDO RAM.....$ 65
Diamond Stealth, 3D 2000 PRO 2MB PCI EDO RAM.....$ 55
Diamond Virge, 3D 4MB / 2MB PCI EDO RAM.....$ 49 / 32
Venus Virge, 3D 4MB PCI EDO RAM.....$ 39
Diamond Stealth64 2500 2MB PCI EDO RAM.....$ 25

### INTEL / ASUS / STB / S3 / TRIDENT

Intel Express 3D, AGP 4MB SGRAM.....$ 109
Asus 3000, AGP 4MB SGRAM.....$ 95
STB Velocity 128bit, 4MB PCI OEM.....$ 85
S3 Virge, 3D 4MB AGP EDO RAM.....$ 37
Trident 9750, 3D 4MB AGP EDO RAM.....$ 42
Trident 9685, 3D 2MB PCI with TV Ready.....$ 32
Trident 9680, 1MB PCI with MPEG.....$ 19
Trident 9440, 1MB PCI.....$ 19

### MEMORY UPGRADE

Rainbow Runner Studio.....$ 155
Diamond Stealth / Trident 1MB Module.....$ 10

## MONITORS

### SONY

Sony 17" .25 1280x1024 200ES.....$ 475
Sony 15" .25 1280x1024 15SF II.....$ 295
Sony 15" .25 1280x1024 100ES.....$ 265

### VIEWSONIC

Viewsonic 19" .26 1600x1280 G790.....$ 749
Viewsonic 17" .25 1600x1280 PT770.....$ 569
Viewsonic 17" .25 1600x1280 P775.....$ 459
Viewsonic 17" .27 1280x1024 E771.....$ 325

### IIYAMA

Iiyama 17" .25 1600x1280 9017E PRO.....$ 535
Iiyama 17" .25 1600x1280 8617E.....$ 429
Iiyama 15" .25 1600x128 8515G.....$ 219

### PANASONIC

Panasonic 17" .27 1280x1024 P17.....$ 399
Panasonic 17" .27 1280x1024 S70.....$ 379
Panasonic 15" .27 1280x1024 S15.....$ 239

### MAG INNOVISION

Mag 17" .25 1280x1024 DX700T.....$ 435
Mag 15" .25 1280x1024 DX15T.....$ 259
Mag 15" .28 1280x1024 DJ530.....$ 195

### DIGIVIEW

Digiview 17" .28 1280x1024.....$ 299
Digiview 15" .28 1280x1024.....$ 185
Digiview 14" .28 1024x768.....$ 139

### SHAMROCK

Shamrock 17" .26 1280x1024.....$ 359
Shamrock 17" .28 1280x1024.....$ 285
Shamrock 15" .28 1280x1024.....$ 175
Shamrock 14" .26 1024x768.....$ 135

### KOMODO

Komodo 17" .28 1280x1024 H73.....$ 285
Komodo 15" .28 1280x1024 H51.....$ 165
Komodo 14" .28 1024x768 H40.....$ 125

## CONTROLLER CARDS

Adaptec 2940UW PCI Ultra Wide SCSI.....$ 155
Adaptec 2940U PCI SCSI.....$ 145
Adaptec 1520B ISA SCSI.....$ 75
Vesa Local Bus IDE Controller 2S, 1P, 1G.....$ 14
ISA IDE Controller 2S, 1P, 1G.....$ 12
Printer Card.....$ 10

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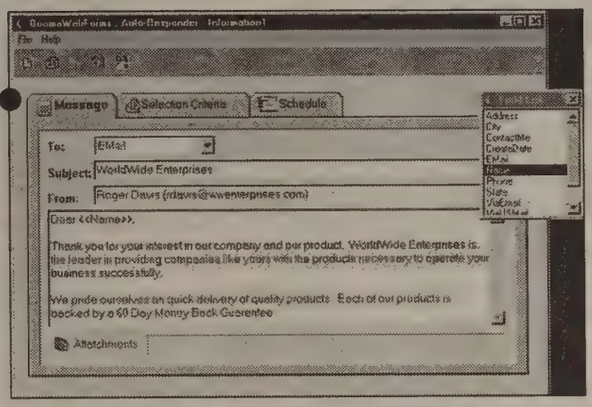
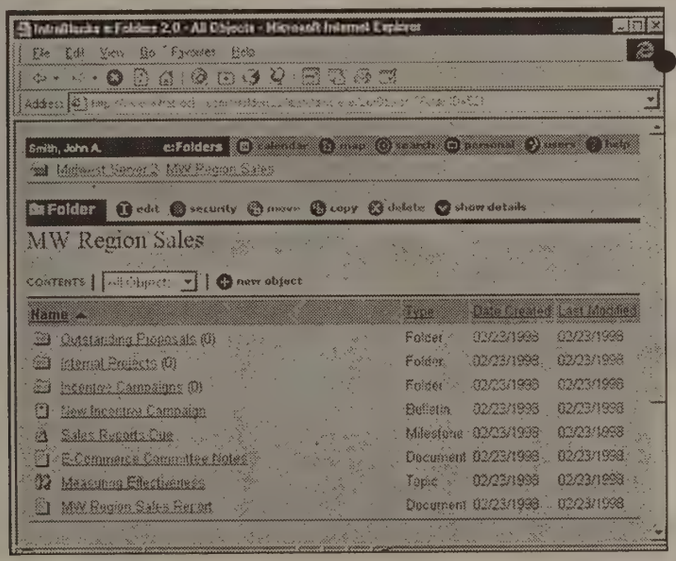
*continued from page 186*

# Web Applications


Message
Selection Criteria
Schedule
To:
EMail
Subject:
WorldWide Enterprises
From:
Roger Daws (rdaws@wwenterprises.com)
Dear <<Name>>,
Thank you for your interest in our company and our product. WorldWide Enterprises is the leader in providing companies like yours with the products necessary to operate your business successfully.
We pride ourselves on quick delivery of quality products. Each of our products is backed by a 60 Day Money Back Guarantee
Attachments

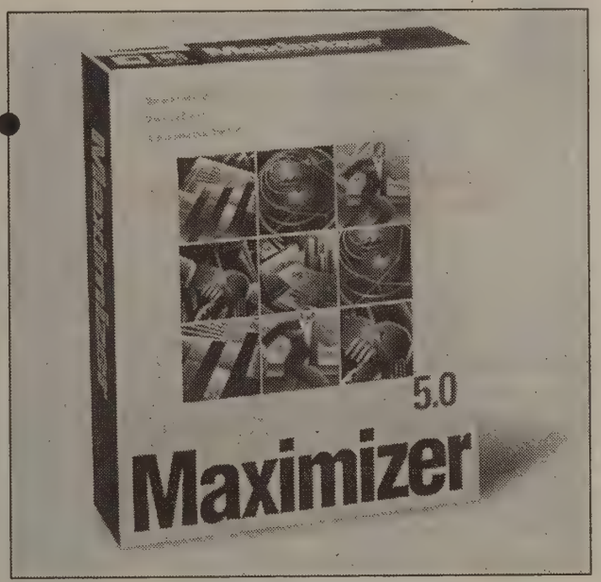
## BOOMA WebForms

WebForms is an easy-to-use and cost-effective solution for Web site developers to create and manage forms on their Web sites. WebForms allows professionals to create forms, with a database back-end, in minutes and for less than $100. It utilizes through simple drag-and-drop technology and requires no CGI scripting, programming or Java coding. The program uses a Java applet to process its forms. Because of this Java applet, it requires no server applications and also works for virtually hosted Web sites. ($99) BOOMASoft, (801)495-3100 or *www.boomasoft.com* .



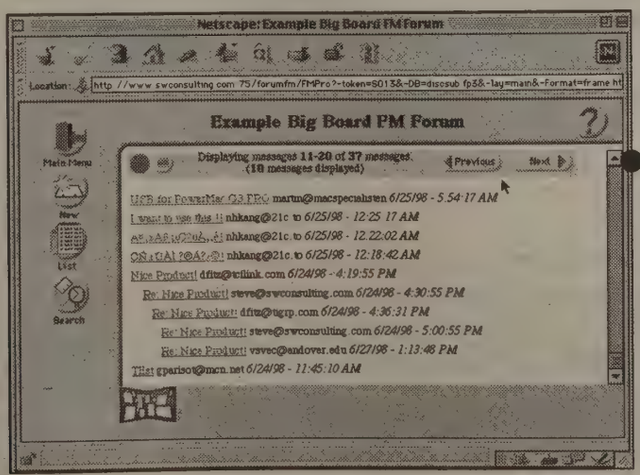

## e:Folders

IntraBlocks e:Folders is a Web-based knowledge management solution for team, division, or corporate use. This application turns a Web server into a powerful knowledge base. Regardless of client platform or location, e:Folders delivers information on demand. Running on 14.4kbps dialup to high-speed Internet connections, e:Folders works with 16- or 32-bit versions of Microsoft or Netscape browsers, and uses servers and databases from Microsoft, Netscape, Oracle, and Sybase. User- and group-level security is integrated with Microsoft NT server domain security. The e:Folders environment is constructed as a native executable Web application. Any SMTP mail server can be used for event and user notification. IntraBlocks, 1-888-773-1133 or *www.intrablocks.com* .




## Maximizer 5.0.

With over 70 new features, including an enhanced email center, Web research tools, ReportSmith Explorer, international route planning with AND Route 98 from AND Publishing Technology B.V.—Maximizer 5.0 provides e-commerce tools for small businesses who use Window 95 or Windows NT. The program also includes a full suite of e-commerce features that enable a user to create a Web site and start accepting orders and inquiries online—in under an hour. All orders and inquiries are automatically logged to Maximizer for easy follow-up and tracking. ($149, upgrade for Maximizer 97, $79.95) Multiactive Software, Inc. (604)601-8025. *www.multiactive.com* .


Netscape: Example Big Board FM Forum
Example Big Board FM Forum
Displaying messages 11-20 of 37 messages.
(10 messages displayed)
Previous
Next
Main Menu
New
List
Search
Nice Product! 6/24/98 - 4:19:55 PM
Re: Nice Product! 6/24/98 - 4:30:55 PM
Re: Nice Product! 6/24/98 - 4:36:31 PM
Re: Nice Product! 6/24/98 - 5:00:55 PM
Re: Nice Product! 6/27/98 - 1:13:48 PM
That 6/24/98 - 11:45:10 AM

## Big Board FM

This Web-based forum software runs with both Macs and PCs, and requires only FileMaker 4.0 to run. Big Board FM has new features like Web based administration and the ability to have "unlimited" forums off of one file set. This product will be a good fit for tech support forums, focus groups, class discussions, and anything else that needs a dynamic, easy to follow format for discussions. It's easy to administer and customize, and complete online help is provided. Steve Wilmes Consulting, Inc. is also offering a new hosting service, hosting Big Board FM-based forums for $20/month. ($99.81) *www.swconsulting.com/bigboard/index.html* .

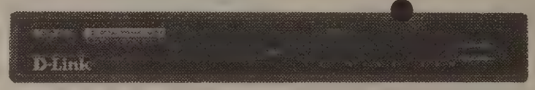
# Networking Hardware

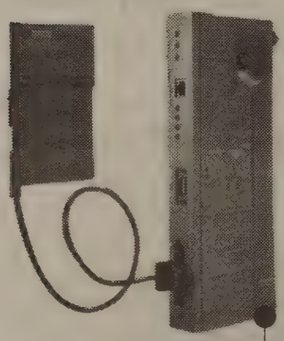
## The 350VS and 500VS

These advanced PowerVS uninterruptible power systems offer complete power-protection benefits for individuals and SOHO users. Each unit provides guaranteed security from power blackouts, surges, sags, and other unpredictable disruptions. The 350VS is designed for the PC user with a 15" monitor and a maximum capacity of 350 VA/Watts. Individuals with a PC and 17"–21" monitor will find the 500VS with 500 VA/Watt capacity to be the better choice for that particular setup. 350VS ($119), 500VS ($179) OPTI-UPS Products, 1-888-OPTI-UPS, *www.opti-ups.com* .

## DES-810E

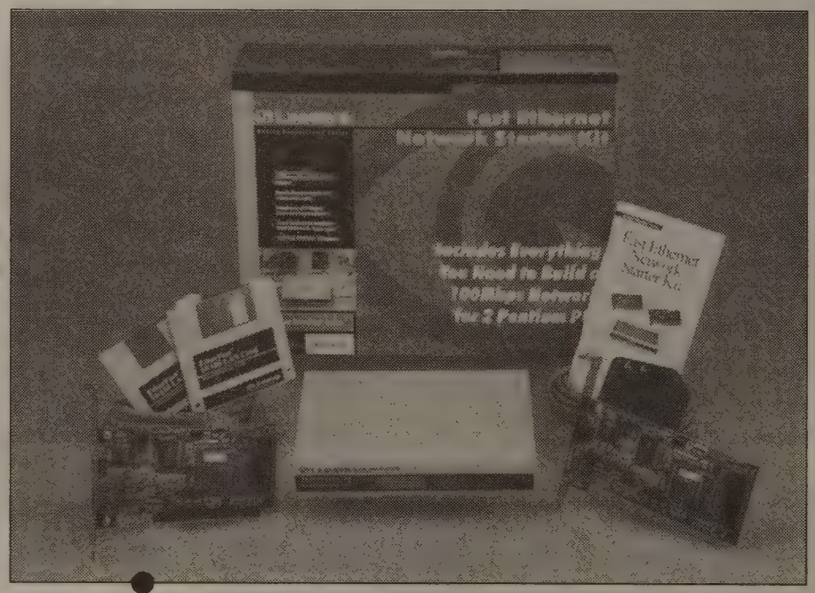
DES-810E is a Dual Speed NWAY auto-sensing 10-port Ethernet/Fast Ethernet SOHO Switch. It delivers dedicated bandwidth for eight 10MB and two 10/100MB connections. It also allows up to ten network devices to directly connect to the switch, providing each with its own dedicated bandwidth. The DES-810E is a smart choice for users in small business and workgroup environments that need the increased performance of a switch at an affordable price. ($299 MRSP or $30 a port) D-LinkSystems Inc., 1-800-326-1688. *www.dlink.com* .



## RoamAbout Wireless LAN

This new wireless network provides connectivity from building to building—up to distances of 10 miles or more in the United States, Canada and Asia Pacific, and 1Km or more in Europe. It now interfaces with antenna technology based on Spread Spectrum 2.4GHz Direct Sequence technology. As part of the set that includes hubs and switches, the RoamAbout Access Point can be used as a standalone device, or installed in DNPG's MultiStack 90, DEChub 90 or 900. ($2,495, antennas are sold separately) DIGITAL Network Products Group, a unit of Cabletron Systems, (603)332-9400, *www.networks.digital.com/dr/wireless* .



## Fast Ethernet Network Starter Kit

The Fast Ethernet Network Starter Kit offers a solution complete with the necessary hardware needed to create a Fast Ethernet network in minutes. The kit includes the Ethernet 4-Port 100BaseTX Hub, two EtherFast 10/100 LAN Cards, and two 15' Category 5 UTP cables. Running at speeds 10 times faster than standard Ethernet, it's able to support heavy resource-draining applications—such as the Internet, desktop publishing, video, CAD, database, and multi-user gaming applications—with ease. ($149) The Linksys Group, Inc., 1-800-LINKSYS, or *www.linksys.com* .

# COMP 2000

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## AFFORDABLE SYSTEM

Intel TX Chipset, DFI Motherboard
512K Pipeline Cache
32MB SDRAM
4.3GB Ultra HD Quantum
56K FLEX Fax/V Modem
24X TOSHIBA CD-ROM
32-Bit Sound, 90W Speakers
1.44MB FDD
15" SVGA Cybervision Monitor
S3 SVGA 2MB PCI Video
Built-In Controllers (Ultra DMA)
Digital Mini-Tower, Mouse
104 Enhanced Keyboard

pentium PROCESSOR

MMX 166MHz ..... $725
MMX 200MHz ..... $750
MMX 233MHz ..... $769

AMD

K6 200MHz ..... $699
K6 233MHz ..... $729
K6 266MHz ..... $789
K6 300MHz ..... $899

## MULTIMEDIA SYSTEM

DFI Main Board (LX/BX/VIA)
512K/1MHz Pipeline Cache
64MB SDRAM
6.4GB Maxtor Ultra HD
56K Flex V.90 Rockwell
32X TOSHIBA CD-ROM
32-Bit Sound, 90W Speakers
1.44MB FDD
17" .27 Cybervision SVGA Color Monitor
Diamond Stealth 4MB AGP Video
Built-In Controllers (Ultra DMA)
Mid ATX-Tower, Mouse
104 Enhanced Keyboard

pentium PROCESSOR

MMX 200MHz ..... $999
MMX 233MHz ..... $1019
PII Klamath 233MHz ..... $1149
PII Klamath 266MHz ..... $1199
PII Klamath 300MHz ..... $1299
PII Klamath 333MHz ..... $1399
PII Klamath 350MHz ..... $1549
PII Klamath 400MHz ..... $1749

AMD

K6 200MHz ..... $969
K6 233MHz ..... $989
K6 266MHz ..... $999
K6 300MHz ..... $1099

## DVD SYSTEM

DFI Main Board (LX/BX/VIA)
512K/1MHz Pipeline Cache
64MB SDRAM
7.2GB Maxtor Ultra HD
56K Flex V.90 Rockwell
Real Magic Hollywood DVD Kit
64 AWE SoundBlaster
390W Subwoofer Speakers
1.44MB FDD
17" .25 Cybervision Monitor Flat Screen
Diamond Viper 330 AGP*
Built-In Controllers (Ultra DMA)
Mid ATX-Tower, Mouse
104 Enhanced Keyboard

pentium PROCESSOR

MMX 200MHz ..... $1399
MMX 233MHz ..... $1429
PII Klamath 233MHz ..... $1589
PII Klamath 266MHz ..... $1629
PII Klamath 300MHz ..... $1729
PII Klamath 333MHz ..... $1869
PII Klamath 350MHz ..... $1979
PII Klamath 400MHz ..... $2169

AMD

K6 200MHz ..... $1399
K6 233MHz ..... $1409
K6 266MHz ..... $1449
K6 300MHz ..... $1479

## PENTIUM NOTEBOOK

MMX intel inside pentium

Windows NT

Intel Triton Chipset
512K Pipeline Cache
32MB SDRAM
3.1GB HD
20X CD -ROM (Int.)
32-Bit Sound
1.44MB FD (Int.)

| 12.1" TFT | 13.2" TFT |
|---|---|
| MMX 200MHz ... $1499 | MMX 200MHz ... $1749 |
| MMX 233MHz ... $1529 | MMX 233MHz ... $1799 |

## BAREBONE SYSTEM

Intel Triton Chipset
512K Pipeline Cache
32MB SDRAM
1.44MB FDD
Built-In Controllers
S3 2MB VGA PCI Card
Mid-Tower, Mouse
104 Enhanced Keyboard

pentium PROCESSOR

MMX K6-200MHz ..... $279
MMX K6-233MHz ..... $289
MMX K6-266MHz ..... $309
MMX 200MHz ..... $289
MMX 233MHz ..... $309
PII Klamath 233MHz ..... $439
PII Klamath 300MHz ..... $599
PII Klamath 333MHz ..... $769

## ACCESSORIES

**HARD DRIVES**

4.3GB Maxtor Ultra ..... $149.99
6.4GB Maxtor Ultra ..... $195.99
7.2GB Maxtor Ultra ..... $209.99
8.4GB Maxtor Ultra ..... $248.99
3.2GB Quantum Ultra ..... $139.99
4.3GB Quantum Ultra ..... $179.99
6.4GB Quantum Ultra ..... $198.99
8.4GB Quantum Ultra ..... $279.99
Ultra IDE <10ms
56K Flex V.90 Modem ..... $65.00
Iomega Zip Drive 100MB (Internal) ..... $79.99

**DIAMOND PRODUCTS**

Viper 330 AGP 4MB ..... $89.00
Fire 1000 GL 4MB ..... $114.00
Monster II 3D 8MB ..... $220.00
**Win 95 w/System ..... $79.99**

## MONITORS

**VIEWSONIC**

G773 .26DP ..... $419.00
P775 .25DP ..... $469.00
810 21" .25 ..... $949.00

**CYBERVISION**

14" .28 Monitor ..... $149.99
15" .28 Monitor ..... $179.99
17" .27 Monitor ..... $299.99
17" .25 Monitor ..... $429.99

## MULTIMEDIA

**TOSHIBA CD-ROM**

Yamaha 719 Sound & 100 Watt Speakers
24X/32X ..... $99.99/109.00

**REAL MAGIC DVD KIT**

Gen II DVD-ROM + Decoder ..... $235.00

**CREATIVE SOUND BLASTER**

AWE 64 ..... $69.00

**HOME THEATER SYSTEM** (6 Speakers)

500Watt Dolby Digital Surround ..... $145.00

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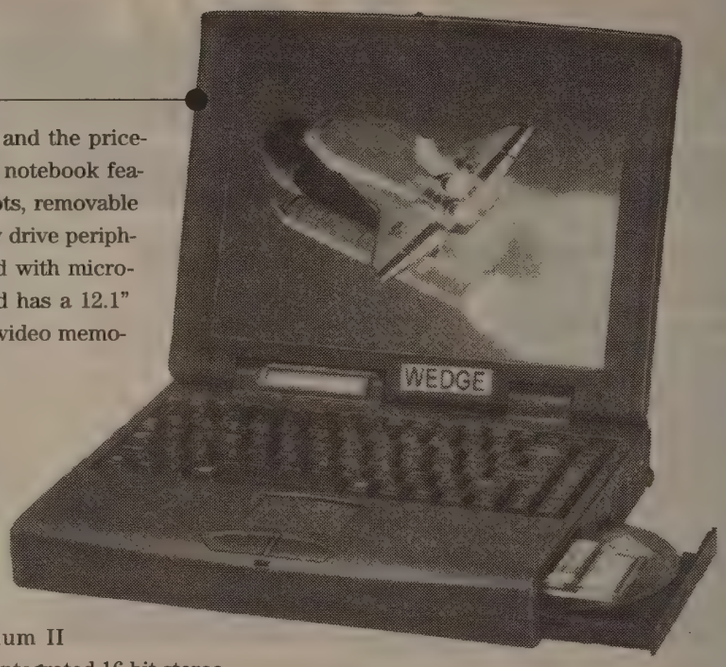
# Mobile Computing

## ShowBook P6CD-S



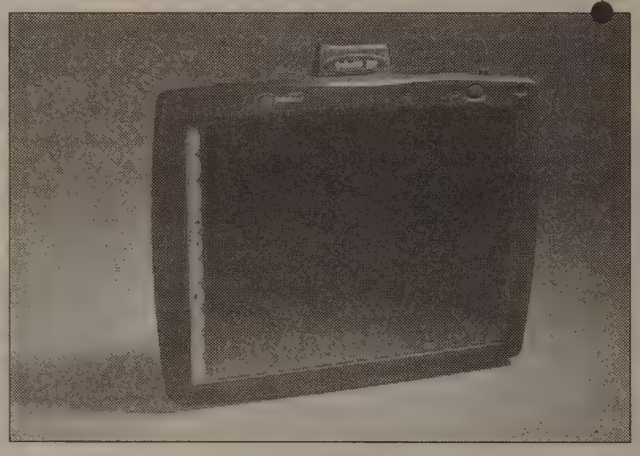

For large offices purchasing notebook PCs in volume, the home offices, and the price-minded students, ShowBook P6CD-S is an affordably priced solution. The notebook features an Intel Pentium 200MHz MMX processor, 32MB RAM, 2 PCMCIA slots, removable 3.2GB IDE hard drive, 20X CD-ROM, interchangeable battery/1.44MB floppy drive peripheral bay, MPEG full motion video support, and built-in 16-bit stereo sound with microphone and speakers. It weighs 7.5lbs, and measures 11.8" x 9" x 2.1" and has a 12.1" active matrix color TFT screen with graphic accelerator, and 2MB of EDO video memory. ($1,495) Wedge Technology Inc., 1-800-872-9334. *www.wedgetech.com* .

## WinBook XLi Series

These high-end mobile computers offer desktop equivalent performance with Intel's fastest mobile processor—boasting speed gains of up to 50%. The notebooks feature a 266MHz mobile Pentium II Processor, 13.3" XGA active-matrix screen, integrated 16-bit stereo audio, and Intel's 440BX PCI chipset, offering up to 128MB of SDRAM. Each laptop incorporates a design where the 20X maximum speed CD-ROM, floppy drive, and hard drive are all present, so there is no need to swap components. ($2,999–$3,399) WinBook Corporation, 1-800-468-2162. *www.winbook.com* .

## CruisePAD NXT

The CruisePAD NXT, a wireless Windows-based terminal, offers a high-resolution, high-performance handheld device for healthcare, fleet maintenance, and other mobile applications. It features an 800 x 600 resolution 12.1" touchscreen, and connects wirelessly to servers utilizing Windows NT Server 4.0, Terminal Server Edition with either Microsoft's Remote Desktop protocol or Citrix's Independent Computing Protocol. It includes an embedded microphone and speaker for full wireless audio support. Also available, is an optional docking station and attachable embedded keyboard. (Cruise Technologies expects to announce end-user availability of CruisePAD NXT with its OEM partners in the second half of 1998.) Cruise Technologies, Inc., 115 S. Wilke Rd., Ste. 300, Arlington Heights, IL 60005. (847)797-0520. *www.cruisetech.com* .



## PocketSuperDisk

The PocketSuperDisk is a 120MB LS-120 transportable drive with PC Card interface that can be powered by a notebook's battery or A/C adapter. The 120MB LS-120 is backwardly compatible with standard 3.5" 750KB/1.44MB floppy disks. Addonics has transformed the LS-120 into a removable and transportable mass storage device that can be used anywhere with its plug-and-play PC Card interface. It measures 6.9" x 4.9" x 0.9", and weighs just 13oz. The PocketSuperDisk includes software drives for DOS 5.1, Windows 3.1, 95, 98, and NT. ($299) Addonics Technologies, 48434 Milmont Dr., Fremont, CA 94538. 1-800-787-8580.

## PalmPilot Carrying Cases

These cases are made of full-grain genuine cowhide, and offer an attractive way to protect and organize a PalmPilot without a lot of bulk. Some feature a pocket for business cards or credit cards, or convenient storage loops to hold spare batteries. Flip-Top Leather Case ($29.95), Leather Case ($39.95), Woven Leather Case ($42.95) Curtis Computer Products, 1-800-272-2366, *www.curtiscp.com* .

# Inland Computer Center, Inc.

**Tel: (909)605-9535 Fax: (909)605-0413**

**302 S.Milliken Ave., Suite A, Ontario, CA 91761**

SALE — **TROGON S14** P/233 mmx, 32M ,20X 3GB, 14.2"TFT **$1899**

SALE — **IBM 365XD** P/133,40M,8X,1.3GB, 11.3"TFT **$1499**

SALE — **Portable Printer Canon BJC-80 $279.99**

## LAPTOPS

### TOSHIBA

| Model | Processor | RAM | HD | Display | CD | MDM | Price |
|---|---|---|---|---|---|---|---|
| Libretto 50CT | P/75 | 16 | 772MB | 6.1" TFT | Option | Option | $ 699.00 |
| Libretto 70CT | P/120 mmx | 16 | 58GB | 6.1" TFT | Option | Option | $1599.00 |
| Libretto 100CT | P/166 mmx | 32 | 2GB | 7.1" TFT | Option | Option | $2349.00 |
| Satellite 305CDS | P/166 mmx | 16 | 2.1GB | 12.1" DSTN | 6 X | 56K | $1649.00 |
| Satellite 315CDS | P/200 mmx | 32 | 2.1GB | 12.1" DSTN | 16 X | 56K | $1999.00 |
| Satellite 315CDT | P/200 mmx | 32 | 2.1GB | 12.1" TFT | 16 X | 56K | $2499.00 |
| Satellite Pro 440CDX | P/133 mmx | 16 | 1.3GB | 12.1" Fast Scan | 10 X | Option | $1399.00 |
| Satellite Pro 440CDT | P/133 mmx | 16 | 1.3GB | 12.1" TFT | 0 X | 33.6 | $1649.00 |
| Satellite Pro 460CDX | P/166 mmx | 32 | 2GB | 12.1" Fast Scan | 10 X | 33.6 | $1699.00 |
| Satellite Pro 470CDT | P/200 mmx | 32 | 2GB | 12.1" TFT | 10 X | 33.6 | $2899.00 |
| Satellite Pro 480CDT | P/233 mmx | 32 | 3.8GB | 12.1" TFT | 10 X | 33.6 | $3299.00 |
| Satellite Pro 490CDT | PII/233 | 32 | 4GB | 12.1" TFT | 20 X | 56K | $2899.00 |
| Portege 300CT | P/133 mmx | 32 | 1.5GB | 10.4" TFT | Option | 33.6 | $1399.00 |
| Portege 320CT | P/266 mmx | 48 | 4GB | 10.4" TFT | Option | 56K | $3599.00 |
| Portege 660CDT | P/150 | 16 | 1.3GB | 11.3" TFT | 10 X | 28.8 | $1899.00 |
| Tecra 510CDT | P/133 | 16 | 2GB | 12.1" TFT | 10 X | 28.8 | $3599.00 |
| Tecra 520CDT | P/166 mmx | 3 | 3.8GB | 12.1" TFT | 10 X | 33.6 | $2599.00 |
| Tecra 530CDT | P/166 mmx | 32 | 2GB | 12.1" TFT | 10 X | 33.6 | $2899.00 |
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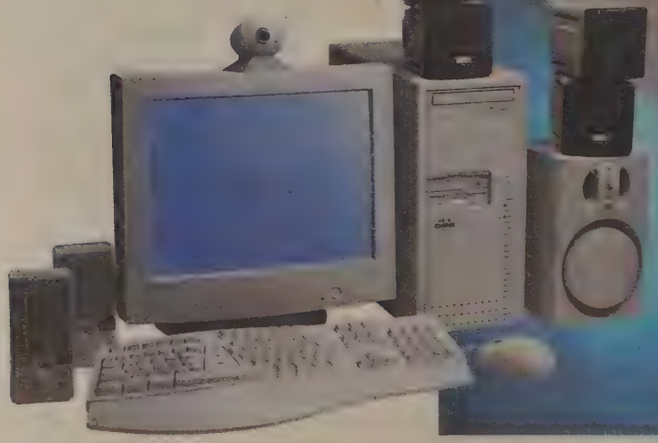

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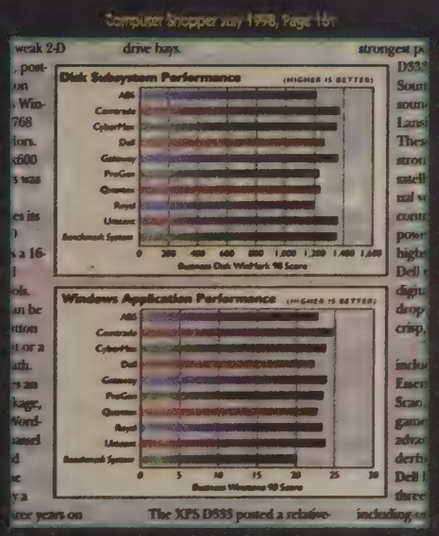
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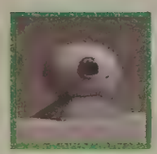

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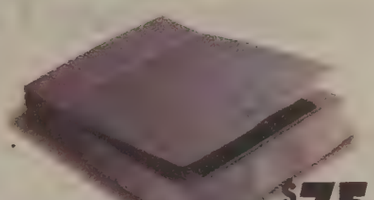

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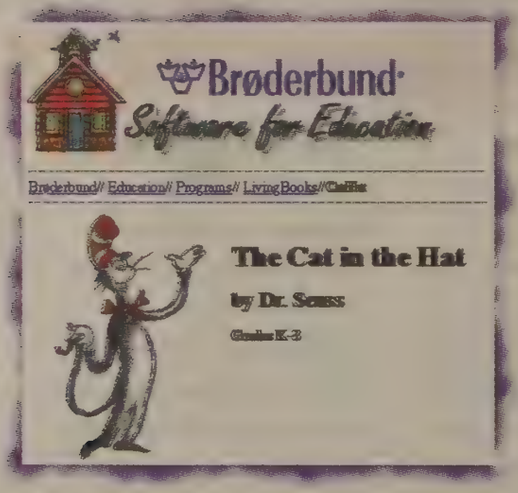
# Multimedia Now!

## The State of Edutainment

By Jonathan E.

***Is all that's needed to make the educational edifice functional again a shot of technology?***




Ten years or so ago, back when it was "the next big thing" and not just another ubiquitous feature of any consumer machine, readily found in any electronics superstore between the home theater systems and the household appliances, one of the most passionately espoused goals of multimedia was to provide a new and better way of allowing children to learn. The concept of children being able to control the pace of presentation and choose what they saw and heard was thought to have great power. The wonder of audio and video coming from the screens of machines, still commonly considered to be dumb and lifeless, synergetically combined with that power to dazzle us into forgetting just how ordinary it would all become.

It's far too early to tell yet whether educational multimedia has fulfilled its early goals. Certainly, we all know that the business of multimedia is as tumultuous as every other part of the computer and media industries. CD-ROMs, thought to be a sure thing, were rapidly eclipsed in the public eye by the World Wide Web.

In the United States, the very concept of what it means to be educated is changing as radically opposed interest groups tear apart any sense of larger community with endless bickering over the three Rs, the bigger R (religion), and fear-mongering over every hot-button topic from sex education to whether American workers will be competitive in the global marketplace of mañana.

In at least some states, California in particular, the physical condition of many schools is utterly appalling. How any child is expected to learn in physical surroundings that continuously tell the child that no one cares and that he or she is little more than a penned-up animal, undeserving of even basic human facilities and respect, is beyond me. Besides the state of disrepair of the buildings, the diminished funding of any so-called extracurricular activities—art, music, drama, the things that make the human experience understandable and bearable—sends today's students the wrong message about their worth and the roles they have to fulfill in the future. Or perhaps, sadly, it's the right message from the point of view of certain political and economic interests. Add to that the intrusion of serious violence and mayhem from some peculiar confluence of gun culture and mass media, and it's a wonder that schools can get anything done at all.

It is this background against which any multimedia-caused improvements to the educational system will be measured. It's certainly no surprise that any even halfway intelligent child would seek refuge in an easy-to-control environment with some nicely defined boundaries—such as a CD-ROM. Besides, computers are officially cool!

However, that background is also dismal enough that simply injecting doses of technology into the situation will not be enough, whether that technology is fully-wired classrooms or an isolated CD-ROM drive with a few educational discs.

Education used to proceed quite well with very little direct reliance on technology of any kind beyond pens, paper, and printing. The products of that education built the complex edifice of today's technological world. But some of the most very basic educational building blocks right at the foundation of that edifice have been allowed to rot away. It is now commonly proposed that all that's needed to make the educational edifice functional again is a shot of technology. Certainly a few CD-ROMs, like the ones discussed below, can help shore up that foundation but, as useful as some of these CD-ROMs might be, far more is required.

### The Cat In The Hat

At a certain age, everything is educational. There is no positive experience that is not valuable in some way. So it has been with the Dr. Seuss books, including his much loved *The Cat In The Hat*.

Traditionally, your mother would read it to you, pointing out the words, encouraging you to turn the page at the appropriate time, getting you to talk about what's happening in the pictures. Sooner or later you'd be well on your way to reading for yourself. And you'd probably have absorbed a moral lesson or two about telling the truth and what not to do when your mother's out of the house.

In today's not-so traditional world, *The Cat In The Hat* has evolved into a Living Book from Brøderbund. I pity the mother or father of today's electronically endowed child who has to compete with the fantasies and production values of a Living Book. There's music, and the characters have their own voices (instead of mommy or daddy just pretending); the pictures move and the words highlight and you can click around to make magical little things happen. In other words, for a certain age group, the only thing missing is being held by mommy or daddy—and really they might even be at your side anyway, showing you what you could do with the mouse if you weren't sure.

If there's one category of multimedia that comes close to convincing me that computer media really have a lot to offer, it's well-done children's classics.

*The Cat In The Hat* is one of those well-done children's classics. It's got all the multimedia bells and whistles that children love and that have become a fairly standard package. Today's busy parents will also find *The Cat In The Hat* a good electronic babysitter with some educational merit—although in some instances, such as when the Cat attempts to balance a whole household's worth of objects, your child may learn more about using a mouse than the real physics of a center of gravity. Any aspiring multimedia worker too old to have grown up with numerous examples of the genre could also use *The Cat In The Hat* as a good design study.

## The Jolly Postman's Party

For a murkier, and perhaps more interesting design study, consider *The Jolly Postman's Party*, another children's CD-ROM based on a popular book making educational claims. It's more ambitious than *The Cat In The Hat* in that it's a lot more activity oriented; in fact, it's really a very limited version of Brøderbund's Kid Pix Studio Deluxe, discussed in last month's Multimedia 101, but framed within a virtual social setting with some characters to add a bit of color. There's no story to talk of, and it's not designed to help a child read.

Its educational aspects again rely on the fact that just about every positive experience is educational at a certain age. In *The Jolly Postman's Party*'s case, the educational features are primarily aimed at developing communication skills. Up to 36 children can use a single copy to send each other cards that they've created using its art features, which can also be used to print out party hats and masks and things like a cut-out tea set. All of which is an improvement over going to one of those horrible suburban stores full of pre-made party favors and decorations. However, I'm of the opinion that old-fashioned paper, cardboard, scissors, messy markers, and paint would be even more fun and encourage more creativity. A common claim for using a computer in this fashion is that it teaches children to use computers. However, the interface for the painting tools and card making is distinctly non-standard, rather too cutesy—nothing like a real paint program—and uses a typewriter, sheets of paper, and envelopes as metaphors, all of which seem to me would be a hindrance, something to later unlearn, for any child making their first mouse clicks.

*If you thought CD-ROM was slow, just wait until you try it side-by-side with a consumer Internet connection.*

Besides being able to send cards to other local users of *The Jolly Postman's Party*, you can send cards to the characters at the virtual party over the Internet. Potentially, this could be a great way for younger children to get used to the idea of communicating via computers over a distance. There's a birthday for a different character each month. Send in your card for that character the previous month, and there's a contest for the best card. You can look at the cards for any character's birthday.

But that's it. It's ultimately very limited—there's no way for children to communicate directly with each other, to say, "I really liked the card you made for the piglet." Everything is squeezed through a rather narrow portal. And if you thought CD-ROM was slow, just wait until you try it side-by-side with a consumer Internet connection. While the hybrid CD-ROM/Web parts of *The Jolly Postman's Party* actually worked, and the visual experience was pretty seamless, the repeated "Connecting to the Internet" messages really slowed things down and would try the patience of any child not lucky enough to have a mommy or daddy with a T1 line. Perhaps this explains why each character seems to have only received about a dozen cards.

Beyond its communication skills aspects, *The Jolly Postman's Party* claims educational qualities from its Pat A Cake, Lights Out, and Balloon Game competitive sections. Pat A Cake is a cake-making exercise involving measuring ingredients, and thus basic arithmetic. Lights Out is an observation sharpening exercise where a selection of objects is laid out on the table and then rearranged while the lights are out; your task is pick out what's been moved. The Balloon Game is a slightly bizarre exercise involving letters in balloons that The Jolly Postman shoots down with a catapult; the letters are only in certain colored and shaped balloons, as shown by a placard held up by a duck who quacks every so often to let you know that the desired shape or color has changed. It claims to teach pattern and color recognition—I'm not sure that it isn't like *The Cat In The Hat*'s balancing act in that it really teaches the adroit use of the mouse, which I suppose will be an important skill in the future work lives of many of today's children. Shooting balloons with a catapult is rather fun in a little-boy way, however.

*continued from page 160*

All these competitive activities have adjustable difficulty levels and a score-keeping function. There's no doubt that a child could be entertained and learn something from them. Even with my reservations about the card-making and art sections, a child could certainly get some positive effects from them.

Overall, however, *The Jolly Postman's Party* falls frustratingly just short of being a good CD-ROM—and that's what makes it an interesting and murky design study. Perhaps recognizing its limitations, it does have a very good help function for each section, where a gingerbread man runs through all the features of the section when clicked. One additional thing to note about the title is that it's a British production from DK Multimedia. Several years ago there was a lot of excitement about producing CD-ROMs that would be sellable all over the world with relatively little regard to local culture. There's still great licking of businessmen's chops over the worldwide aspects of the Web. *The Jolly Postman's Party* indicates that even two relatively close cultures can have quite a gap between them. The Jolly Postman announces his Britishness right in the title and follows it through with British accents from the characters right through to the tone of the ringing telephone. The graphic style seems rather British, much more whimsical than most American designs. When the lights go out in the observation exercise there are even a couple of sound effects that some Americans would probably consider risqué in the current climate of political correctness. In fact, they are innocuous enough, just thoroughly British in their humor.

*America is notoriously xenophobic, an interesting consideration when it comes to a foreign multimedia product finding its place in the American marketplace.*

America is notoriously xenophobic, an interesting consideration when it comes to a foreign multimedia product finding its place in the American marketplace. Given the vast quantities of its culture that America exports and its lip service to the principles of free trade, it would be nice if *The Jolly Postman's Party* had at least a few American attendees, even if they were only there for the design.

Next month, Multimedia 101 will look at some educational multimedia designed for slightly older individuals and even for grown-ups. Yes, we'll finally meet Carmen Sandiego and learn about Dealing With Difficult People! ◆

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***The Cat In The Hat***
By Dr. Seuss
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Living Books
Brøderbund Software, Inc.
1-800-521-6263
*www.broderbund.com*

***The Jolly Postman's Party,* $24.95 SRP**
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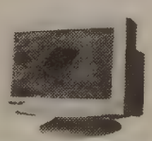

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# Interactive Museum Construction Online

## *Mediatrope Uses Shockwave To Rebuild The de Young*

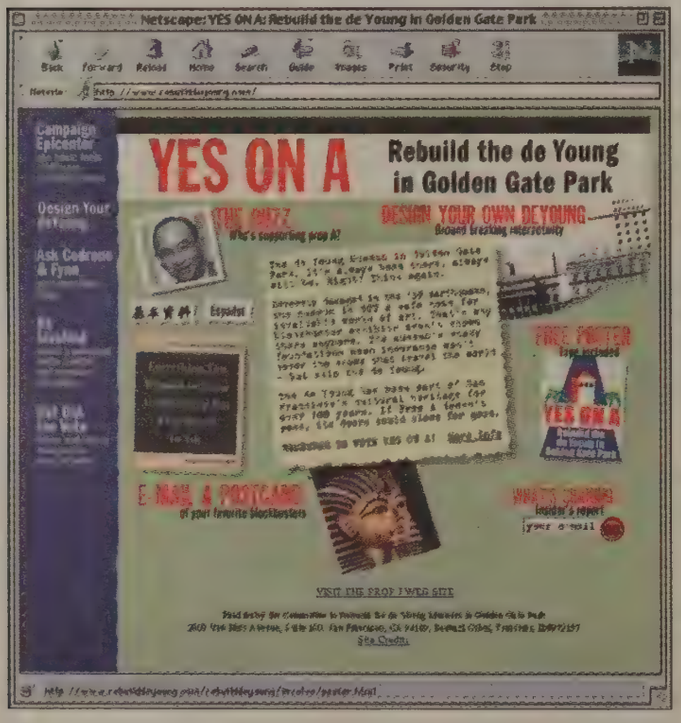
*By Tony Reveaux*

***Mediatrope's Ethan Wilde: "Director's development environment supported all of the interactivity and complex client-server communication the de Young site required."***

With the advent of new-generation tools, Web-based multimedia is becoming as rich as its CD-ROM counterpart. Sun Microsystems' Java and Macromedia's Shockwave and Flash are making it possible to duplicate more and more of CD-ROM-scale interactivity on the Web. These in turn provide more ways the Web can compete for advertising, commerce, education, and entertainment. The following are some current examples of how this technology is used to good advantage.

### Shocking The Electorate

The Rebuild the de Young page *(www.thinker.org)*, created by Mediatrope Internet Studio in connection with a recent San Francisco ballot initiative, is a good example. It serves up a complex yet accessible and engaging activity, and does so while remaining robust and stable, thanks to its Shockwave implementation. Click on "Rebuild the de Young," then on "Design Your Own de Young," and finally "Visualize a Rebuilt de Young." If you don't already have the Shockwave plug-in, there is a direct link there to download it.


Netscape: YES ON A: Rebuild the de Young in Golden Gate Park
YES ON A
Rebuild the de Young in Golden Gate Park
DESIGN YOUR OWN DEYOUNG
E-MAIL A POSTCARD

You are greeted with a view of the Museum which then collapses and disappears in an animated earthquake simulation. The land in the window is left clear for visitors to design and build their own museum, as freely and fancifully as they wish. A menu of five libraries of objects, from towers and wings to trees and bicycles, are available to be clicked-and-dragged to the window, re-arranged, and even returned to the library. Designs that are saved and named are stored in a gallery section for all visitors to peruse.

This site design successfully presents an activity that focuses on the social/political/cultural issue at hand in a light-hearted and constructive, playful way that is of interest and accessibility to all age groups.

### Mediatrope: A View From The Gulch

Located a couple of blocks down the street from the headquarters of Macromedia in the heart of San Francisco's Multimedia Gulch, Mediatrope Internet Studio was established in January of 1996 to provide Web and multimedia services for marketing and educational content. Mediatrope also offers Web-related services including Internet training and consulting, database management and cross-media content creation. Clients have included Live Picture, Clicquot, Schlage Lock Company, and Swiss cookware manufacturer Kuhn Rikon. Their shop tends to have around five people or so, with some services such as copywriting outsourced.

Mediatrope had an existing relationship with the Fine Arts Museums of San Francisco; it designed, produced and currently maintains the Thinker site, which gives users access to over 65,000 works of art. Explains president and programmer Ethan Wilde of the de Young project: "Our conception for this site was to reach out to the community with an invitation to get involved. Our focus on the museum construction kit and saved gallery of user creations, along with the postcard mailing feature, were direct interactive efforts in this direction."

"The biggest constraint we found in the site was the short development lead time available due to the close election date. Given more time, we would have had better luck publicizing the site prior to the election, thereby maximizing site traffic and media exposure."

The site graphics were produced in Macromedia FreeHand and Adobe Photoshop. All HTML production was done in GoLive CyberStudio and BBEdit. Back-end CGI programming was completed in Perl using BBEdit as an editing environment. The Museum construction game and gallery components were produced using Macromedia Director.

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Mediatrope does all development on Power Macintoshes. Extensive site testing was performed using Macs, Windows 95, and NT4 PCs as well as Solaris and SGI UNIX workstations to ensure maximum brassware compatibility. The site is hosted in-house on SGI UNIX workstations running Netscape Enterprise Server.

### Shockwave Vs. Java

Asked about the Shockwave vs. Java decision, Wilde says: "We found that the development environment offered by Director was the most complete and had in its foundation support for all of the interactivity and complex client-server communication needed to support the Gallery feature of the museum construction kit. Client-side Java performance has many problems on both Macs and PCs to this date, including an unacceptable number of system freezes on both platforms and a long start-up time, particularly on Macs."

All of the interactive features found in the game are supported through extensive Lingo programming in Director. The colors and object libraries are stored as castmembers in the Director file.

Any limitations were imposed by bandwidth constraints. "We weighed the value of additional animation and sounds, but found that such features added too much to the overall file size and download time of the Shockwave pieces."

Mediatrope's site development strategy used all focus group data available from the bond campaign committee. This information was invaluable in the initial conception and final look-and-feel of the site as well as the structuring of content. Beta testing of the entire site, including the game, was conducted by Mediatrope with a selected group of users on different platforms and hardware capabilities.

### Just Ask Otto

Another site from Mediatrope for the California State Automobile Association exemplifies CD-ROM values and performance on the Web. Says Wilde, "The underlying development environment for both the Museum game and the Otto Club safety card game is the same, Director. There are some similar programming concepts employed, including those related to the ability of users to save their creations to a gallery.

"The audiences for the two sites are, of course, vastly different. As a result, the Otto Club has a much higher level of intuitive design features integrated into it to support the 6–12 year-old age group that comprises the site audience. As well, the entire Otto Club site was developed using Macromedia Flash to allow for maximum interactivity, animation, and user feedback while minimizing file sizes and download times." ◆

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## Resources:

**Mediatrope Internet Studio**
144 Townsend St. #200
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(415)896-2000 voice
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**The Fine Arts Museums of San Francisco**
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*www.thinker.org*

**The Otto Club**
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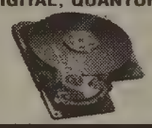

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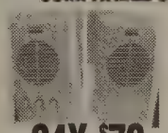

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Steve Moore
Issue #181 examines various aspects of wireless and mobile computing. In our cover story, entrepreneur Kenneth Jackson explains the thinking behind his company Innetix, a San Jose-based Internet Access Service Provider specializing in fast wireless connectivity, and how current market conditions are driving the growth of wireless.
Andy Seybold explains Bluetooth, an emerging standard that could revolutionize wireless communications.
In mobile-related articles, Doug Nakakihara looks at the newly-released Palm III, Peter Linde sings the praises of his Ricochet wireless connection, and Sam Penrose reviews the new G3 PowerBooks.
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# Calendar Of Events

## July 11–12

### Computer Fair

Fairplex Expo Center, Pomona

Produced by National Productions, Inc., for over fourteen years, Computer Fair covers 100,000 square feet with over 300 exhibits featuring multimedia systems, notebook computers, software titles, modems, and other peripherals at discount pricing. Free prize giveaways every hour. Open 10–5 pm, admission $6. For more information, call 1-800-800-5600, *CMPlist@aol.com* , or *www.lacomputerfair.com* .

## July 13–17

### Internet World Summer '98

Chicago, IL

Enterprise solutions, emerging technologies, innovative applications, and the best minds in the industry are all here under one roof. More than 100 workshops and sessions will bring you up to date on the latest solutions for ISPs, e-commerce, security, Net telephony, and a host of new business applications ranging from sports business to Internet promotions. The Web Design and Development Series will help you make the most of today's hottest tools like XML, Java, Visual Basic, and Lotus/IBM technology. Explore solutions for Web casting, Web Server Performance Analysis, Accessing Distributed Objects, Developing Multilingual Sites and much more. Internet World Summer 98 will feature these speakers: William T. Esrey–Sprint, Janpieter Scheerder–Sun Microsystems, Inc., Robert J. Davis–Lycos, Inc., John Patrick–IBM Corporation, Jack Valenti–Motion Picture Association of America. For more info visit *http://events.internet.com/summer98/* .

## July 19–23

### Siggraph 98

Orlando, FL

This is the 25th year that the computer graphics community has gathered to size up and advance the creation of a future improved by computer graphics. Let Siggraph 98 be your real-time guide to where computer graphics and interactive techniques are going. Get hands-on with precompetitive products and interact with their creators. Contemplate a milestone display of work from artists around the world who are redefining the role of computers in human expression. Refresh your senses in the Electronic Theater and experience the best in animation, interaction, and performance. This conference is a multiplier of imagination, where everyone is a creator. Where there is something for everyone who feels the thrill of computer graphics and interactive techniques. Where anybody who leads and works in this fast-paced industry needs to be. *www.siggraph.org/s98/s98main.html* .

## Conferences, Shows, Special Events

### July

**July 11 MarketPro Computer Show & Sales.** Kern County Fairgrounds, Bakersfield. MarketPro Shows. Contact: 1-800-708-7555, or *http://marketpro.com* .

**July 11–12 Computer Fair.** Fairplex Expo Center, Pomona. National Productions. Contact: 1-800-800-5600, *CMPlist@aol.com* , or *www.lacomputerfair.com* .

**July 10–12 Brave New Home Expo.** San Francisco. Habitat For Humanity. Contact: (925) 439-0434, or *www.newworldexpo.com* .

**July 12 MarketPro Computer Show & Sales.** Antelope Valley Fairgrounds, Lancaster. MarketPro Shows. Contact: 1-800-708-7555, or *http://marketpro.com* .

**July 13–17 Internet World Summer '98.** Chicago, IL. Contact: *http://events.internet.com/summer98/* .

**July 18 MarketPro Computer Show & Sales.** Ventura Fairgrounds, Ventura. MarketPro Shows. Contact: 1-800-708-7555, or *http://marketpro.com* .

**July 18–19 Computer Fair.** Sherman Square Entertainment Center, Reseda. National Productions. Contact: 1-800-800-5600, *CMPlist@aol.com* , or *www.lacomputerfair.com* .

**July 18–19 American Mega Computer Shows.** Cashman Field Center, Las Vegas. American Mega Shows. Contact: (626)961-3782, or *www.megashow.com* .

**July 19 MarketPro Computer Show & Sales.** Scottish Rite Center, San Diego. MarketPro Shows. Contact: 1-800-708-7555, or *http://marketpro.com* .

**July 19–23 Siggraph 98.** Orlando, FL. Contact: *www.siggraph.org/s98/s98main.html* .

**July 21–23 Teen Power Interactive '98.** San Francisco. iqpc. Contact: 1-800-882-8684, *www.iqpc.com* .

**July 25 MarketPro Computer Show & Sales.** Fresno Fairgrounds, Fresno. MarketPro Shows. Contact: 1-800-708-7555, or *http://marketpro.com* .

**July 25–26 American Mega Computer Shows.** Pasadena Convention Center. American Mega Shows. Contact: (626)961-3782, or *www.megashow.com* .

**July 28–30 Business Solutions And Technology Immersion Conference.** New York, NY. DCI. Contact: (978)470-3880, or *www.dci.com/datawhse* .

### August

**August 12 Computer Fair.** Fairplex Expo Center, Pomona. National Productions. Contact: 1-800-800-5600, *CMPlist@aol.com* , or *www.lacomputerfair.com* .

**August 12 American Mega Computer Shows.** CSU, Northridge. American Mega Shows. Contact: (626)961-3782, or *www.megashow.com* .

**August 2 MarketPro Computer Show & Sales.** Scottish Rite Center, San Diego. MarketPro Shows. Contact: 1-800-708-7555, or *http://marketpro.com* .

**August 3 SENET Sales and Management Career Fair.** Disneyland Hotel, Anaheim. SENET Career Expo. Contact: (626)336-8306, or *www.senetcareer.com* .

**August 3–4 SENET High-Tech Career Fair.** Disneyland Hotel, Anaheim. SENET Career Expo. Contact: (626)336-8306, or *www.senetcareer.com* .

**August 8–9 Computer Fair.** Sherman Square Entertainment Center, Reseda. National Productions. Contact: 1-800-800-5600, *CMPlist@aol.com* , or *www.lacomputerfair.com* .

**August 9 MarketPro Computer Show & Sales.** Community Center, Oxnard. MarketPro Shows. Contact: 1-800-708-7555, or *http://marketpro.com* .

**August 10–11 Interconnect 98.** Anaheim. Orange County Netware Users Group. Contact: *www.novell.com/interconnect.*

**August 14–15 Multi-Cultural Internet Conference and Expo.** Los Angeles. Contact: *info@mcice.com , or www.mcice.com* .

**August 15 MarketPro Computer Show & Sales.** Fresno Fairgrounds, Fresno. MarketPro Shows. Contact: 1-800-708-7555, or *http://marketpro.com*.

**August 15–16 American Mega Computer Shows.** Cashman Field Center, Las Vegas. American Mega Shows. Contact: (626)961-3782, or *www.megashow.com* .

**August 17–18 SENET Hi-Tech Career Fair.** San Diego Convention Center, San Diego. SENET Career Expo. Contact: (626)336-8306, or *www.senetcareer.com* .

**August 17–20 PERL Conference 2.0.** San Jose. O'Reilly and Assoc. Contact: *http://conference.perl.com* .

**August 17–20 Integrated Broadband Networks '98.** Chicago, IL. Institute of Management Research Ltd. Contact: *www.broadband98.com* .

**August 17–20 Training IT Conference and Expo.** San Francisco. Influent Technology Group Contact: 1-888-333-9088, *www.influent.com* .

**August 17–20 SCO Forum98.** San Jose. SCO Forum. Contact: 1-800-SCO-UNIX, or *www.sco.com/https/forum98* .

**August 17–21 Software Development '98** Conference. Washington, DC. Miller Freeman Contact: *www.sdexpo.com* .

**August 17–21 SD 98.** Washington, D.C. Miller Freeman. Contact: (781)821-6722, or *www.sdexpo.com* .

**August 22–23 Computer Fair.** Fairplex Expo Center, Pomona. National Productions. Contact: 1-800-800-5600, *CMPlist@aol.com* , or *www.lacomputerfair.com* .

**August 29 Computer Fair.** Earl Warren Showgrounds, Santa Barbara. National Productions. Contact: 1-800-800-5600, *CMPlist@aol.com* , or *www.lacomputerfair.com* .

**August 29 MarketPro Computer Show & Sales.** Kern County Fairgrounds, Bakersfield. MarketPro Shows. Contact: 1-800-708-7555, or *http://marketpro.com* .

**August 30 American Mega Computer Shows.** Pheonix Club, Anaheim. American Mega Shows. Contact: (626)961-3782, or *www.megashow.com* .

**August 31–September 1 ProVUE Panorama Conference.** Los Angeles. ProVUE. Contact: 1-800-966-7878, or *www.provue.com/provue/pv98_home.html.*

### September

**September 13 eBusiness World.** Boston, MA. DCI. Contact: (978)470-3880, or *www.dci.com/eBusiness* .

**September 2–3 Internet Expo.** MA. DCI. Contact: *www.dci.com/Internet* .

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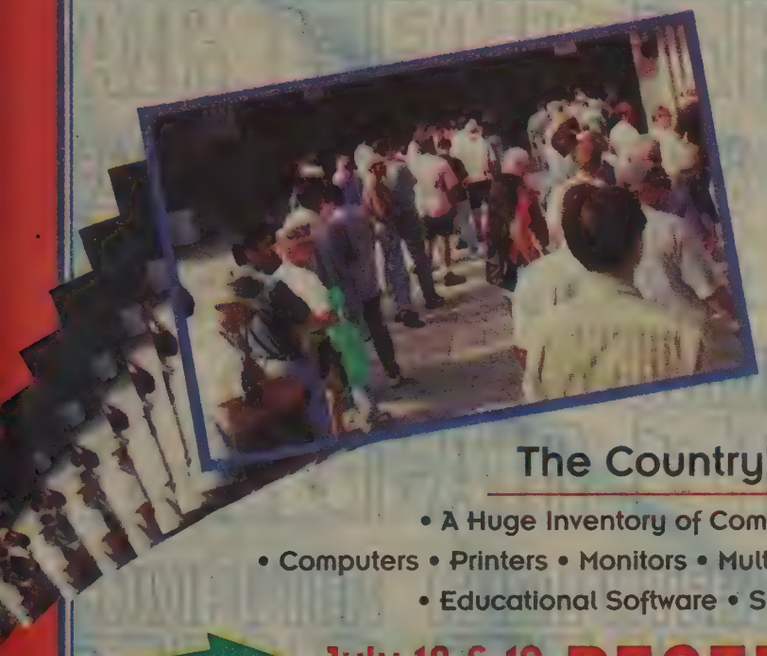

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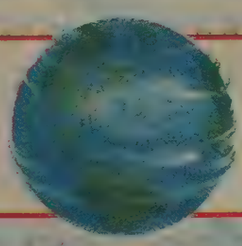

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| T-325CDS | P233MMX | 32/4GB | 12.1"DSTN | $1,525 |
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**September 5 MarketPro Computer Show & Sales.** Fresno Fairgrounds, Fresno. MarketPro Shows. Contact: 1-800-708-7555, or *http://marketpro.com*.

**September 6 MarketPro Computer Show & Sales.** Scottish Rite Center, San Diego. MarketPro Shows. Contact: 1-800-708-7555, or *http://marketpro.com*.

**September 8–11 COMDEX/Enterprise.** San Francisco. Contact: *www.comdexenterprise.com*.

**September 12 Computer Fair.** Sherman Square Entertainment Center, Reseda. National Productions. Contact: 1-800-800-5600, *CMPlist@aol.com*, or *www.lacomputerfair.com*.

**September 12–16 Autodesk Design World 1998.** Philidelphia, PA. Autodesk, Inc.. Contact: 1-888-397-0123, or *www.autodesk.com/designworld*.

**September 13 MarketPro Computer Show & Sales.** Antelope Valley Fairgrounds, Lancaster. MarketPro Shows. Contact: 1-800-708-7555, or *http://marketpro.com*.

**September 13 Computer Fair.** Sequoia Conference Center, Buena Park. National Productions. Contact: 1-800-800-5600, *CMPlist@aol.com*, or *www.lacomputerfair.com*.

**September 14–17 TRACE.** Santa Clara. IDG. Contact: 1-888-545-9800, or *www.traceexpo.com*.

**September 16–20 4D Summit 98.** Denver, CO. Contact: *www.4dsummit.com/*.

**September 19 Computer Fair.** Earl Warren Showgrounds, Santa Barbara. National Productions. Contact: 1-800-800-5600, *CMPlist@aol.com*, or *www.lacomputerfair.com*.

**September 20–23 SoftWorld '98.** St. Johns Newfoundland, Canada. Contact: *www.softworld98.com/about_f.htm*.

**September 22–23 SENET Hi-Tech Career Fair.** Universal Hilton Hotel, Los Angeles. SENET Career Expo. Contact: (626)336-8306, or *www.senetcareer.com*.

**September 24–25 Internet Expo.** Toronto, ON. DCI. Contact: *www.dci.com/Internet*.

## Classes, Seminars, Workshops

### July

**July 11 Oracle & Oracle Financials Class.** Bellflower. Computer Resolutions. Contact: (562)804-0470, or *www.computer-resolutions.com*.

**July 11 Beg Mac.** Santa Monica. Santa Monica. LAMG. Contact: (310)319-1821, or *www.lamg.com*.

**July 11–August 1 Microsoft Publisher 97.** Fullerton. Cal State Fullerton Extension. Contact: (714)278-2611.

**July 11–August 1 Satellite Communication Systems and Applications–$460.** Irvine. UCI extention. Contact: (949)824-5414, or *www.unex.uci.edu/academic/tech*.

**July 13–14 SCO OpenServer Administration I.** Irvine. CSULB. Contact: Mark Smith (562)985-8452, or *www.uces.csulb.edu/scitech*.

**July 14 Hands-On Intro PageMaker.** Santa Monica. LAMG. Contact: (310)319-1821, or *www.lamg.com*.

**July 14–30 QuarkXPress 3.3 on the Mac/Inter.** Fullerton. Cal State Fullerton Extension. Contact: (714)278-2611.

**July 15 Getting Started on the Internet.** Santa Monica. LAMG. Contact: (310)319-1821, or *www.lamg.com*.

**July 15–16 Hands-On Intro to Painter.** Santa Monica. LAMG. Contact: (310)319-1821, or *www.lamg.com*.

**July 15–16 SCO OpenServer Administration I.** Irvine. CSULB. Contact: (562)985-8452, or *www.uces.csulb.edu/scitech*.

**July 16 Before You Buy a Mac.** Santa Monica. LAMG. Contact: (310)319-1821, or *www.lamg.com*.

**July 17 Hands-On Intro to Director.** Santa Monica. LAMG. Contact: (310)319-1821, or *www.lamg.com*.

**July 18 Hands-On Intro to AfterEffects.** Santa Monica. LAMG. Contact: (310)319-1821, or *www.lamg.com*.

**July 18 Intro to Photoshop.** Santa Monica. LAMG. Contact: (310)319-1821, or *www.lamg.com*.

**July 18 Automating Everything with Your Mac.** Santa Monica. LAMG. Contact: (310)319-1821, or *www.lamg.com*.

**July 18–25 JAVA for Signal Processing–$385.** Irvine. UCI extention. Contact: (949)824-5414, or *www.unex.uci.edu/academic/tech*.

**July 18–August 8 Microsoft Windows 95.** Fullerton. Cal State Fullerton Extension. Contact: (714)278-2611.

**July 21–22 Hands-On Intro to Photoshop.** Santa Monica. LAMG. Contact: (310)319-1821, or *www.lamg.com*.

**July 22 Finding a Job on the Interent.** Santa Monica. LAMG. Contact: (310)319-1821, or *www.lamg.com*.

**July 24 Hands-On Intro to Director.** Santa Monica. LAMG. Contact: (310)319-1821, or *www.lamg.com*.

**July 25 Photoshop Power.** Santa Monica. LAMG. Contact: (310)319-1821, or *www.lamg.com*.

**July 25 Hands-On ClarisWorks.** Santa Monica. LAMG. Contact: (310)319-1821, or *www.lamg.com*.

**July 28 Hands-On Freehand.** Santa Monica. LAMG. Contact: (310)319-1821, or *www.lamg.com*.


*continued on page 215*

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Visit Our Web Site at http://www.supershowprod.com For Up-Dated Schedule Maps, Directions and Coupons

July. 18th Sat. — $5. GLENDALE CIVIC AUDITORIUM (City of Glendale)
*1401 N. Verdugo Rd, 2-fwy to Mountain, Westbound to Corner of N. Verdugo*

July. 19th Sun. — $5. RIVERSIDE CONVENTION CENTER (Riverside)
*3443 Orange St., 91fwy to University, Westbound to Orange*

July. 25th Sat. — $5. SAN BERNARDINO NATIONAL ORANGE SHOW FAIRGROUNDS
*689 South 'E' Street, Exit Orange Show Rd. off the 215fwy, follow the signs*

July. 26th Sun. — $5. CAL STATE LONG BEACH (West Gym)
*1250 Bellflower Blvd., Long Beach (Located in Cal State Long Beach West Gym)*

## AUGUST 1998

Visit Our Web Site at http://www.supershowprod.com For Up-Dated Schedule Maps, Directions and Coupons

Aug. 8th Sat. — $5. GLENDALE CIVIC AUDITORIUM (City of Glendale)
*1401 N. Verdugo Rd, 2-fwy to Mountain, Westbound to Corner of N. Verdugo*

Aug. 9th Sun. — $5. RIVERSIDE CONVENTION CENTER (Riverside)
*3443 Orange St., 91fwy to University, Westbound to Orange*

Aug. 15/16 Sat/Sun — $5. ORANGE COUNTY FAIRGROUNDS (Costa Mesa)
*88 Fair Drive, 55-fwy to Fair Drive, Rt. on Fair Drive and Follow The Signs*

Aug. 29th Sun. — $5. CAL STATE LONG BEACH (West Gym)
*1250 Bellflower Blvd., Long Beach (Located in Cal State Long Beach West Gym)*

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*Limit one person per ad

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Disneyland Hotel
**SEPT. 22-23**
LAX - Hilton Hotel

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**AUG. 3**
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Infonet Services Corp.
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ADDED SHOWS: ** AUG. 16 SUNDAY, SEPT. 19 SATURDAY **

| | | |
|---|---|---|
| | **JULY 18-19**<br>SAT & SUN 10-5PM | **Las Vegas: CASHMAN FIELD**<br>850 LAS VEGAS BLVD., NORTH, LAS VEGAS |
| MEGA SHOW FWY BILLBOARD | **JULY 25-26**<br>SAT & SUN 10-5PM | **PASADENA CENTER**<br>300 E. GREEN STREET (btwn Morengo & Los Robles) |
| | **AUG. 1-2**<br>SAT & SUN 10-5PM | **CAL. STATE, NORTHRIDGE**<br>18111 NORDHOFF STREET, NORTHRIDGE (STUDENT UNION) |
| | **AUG. 15-16**<br>SAT & SUN 10-5PM | **Las Vegas: CASHMAN FIELD**<br>850 LAS VEGAS BLVD., NORTH, LAS VEGAS |
| ADDED SHOW → | **AUG. 16**<br>SUNDAY 10-5PM | **CAL. STATE, NORTHRIDGE**<br>18111 NORDHOFF STREET, NORTHRIDGE (STUDENT UNION) |
| Premier Show by Popular Request | **AUG. 30**<br>SUNDAY ONLY 10-5PM | **PHOENIX CLUB (Anaheim)**<br>1340 S. Sanderson Ave.<br>(Fwy 57 exit Ball Rd., at Phoenix Club Dr. & Sanderson Ave.) |
| | **SEPT. 5-6**<br>SAT & SUN 10-5PM | **CAL. STATE, NORTHRIDGE**<br>18111 NORDHOFF STREET, NORTHRIDGE (STUDENT UNION) |

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1998: BETTER THAN EVER / EXPANDING SHOWS

# 4 Days of Computer Entertainment and Education for the Whole Family!

The **California Computer Expo** is THE computer event of the year. Designed for ALL computer users—from business people to parents to gamers—the Expo focuses on education and fun. With a **Seminar Passport** you can attend all Expo events and any seminars with an open seat (or **register by August 15th and receive seminar reservations**).

## Hundreds of Exhibits!

**Consumer Demonstration Hall** — Hands-on demos of the latest computer products
**Business Computing Center** — Solutions to today's foremost business needs
*NEW!* **Career Opportunities Area** — Bring your résumé for great job opportunities
**Computer Shopping Mall** — Purchase the products you've seen and tried

## Hands-On Instruction!

**Computer Learning Center** *Sponsored by* **NBC 7/39**
Instructors from the San Diego Computer Society guide you through all the most popular software products.

## Gaming Center!

Don't get stuck with a lame game. Try out the hottest games around before you buy! (State-of-the-art equipment provided by Computer Parts Plus, booths 601 & 602.)

## 140 Seminars!

**Some 1998 Seminar Highlights:**
Microsoft Corporation will present:
**"Microsoft Windows 98: Works Better and Plays Better"**
**"Grow Your Business Using Microsoft BackOffice Small Business Server"**

*New in '98!*
UCSD Extension will be holding 3-Hour Seminars on the following topics:
**"Choosing the Best Programming Language for Me"**
**"Choosing the Appropriate Network for My Business"**
**"Business Computing Fundamentals",**
**"Elements and Principles of Graphic Design" • "Web Publishing: HTML"**
**"How the Internet Works" • "Building Your Own PC"**

**Please visit our Web site for complete Seminar Listings, or call (800) 573-3247 to be added to our mailing list.**

## ONLINE REGISTRATION!

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Visit our Web site at **www.computoredge.com/expo.**

## Kids Corner

Sponsored by ZANY Brainy — A ZILLION NEAT THINGS FOR kids

Stocked with computers and the best in children's software, the tech-heads of tomorrow can try out and explore the latest and greatest children's software. Parents, too, can sit down with their kids and watch them discover the fun and power of computers! Zany Brainy will be showing a sampling of its wonderful products—and bringing along a few special guests, as well!

In addition, the kids will meet Scottso the Clown and his team, who will entertain with magic tricks, balloon hats, and much more.

## Contests! Contests! Contests!

**Computer System Giveaway!**
Win a complete Pentium II system on Friday, Saturday, or Sunday. Fill out your entry form at the following booths:
- Friday: **Coleman College,** booth 541
- Saturday: **Personal Computer Systems,** booth 331
- Sunday: **K-Online,** booths 1218, 1220, 1222, 1317, 1319, 1321

**Student Essay Contest**
Read the winning entries from students K-12, who submitted essays about "How Computers Help Me Learn." Sponsored by **SignOn San Diego,** booths 1314 and 1413.
*"Where to go when you gotta know."*

**Web Site Design Contest**
Check out the winning submissions from students, professionals, and hobbyists throughout San Diego County! Sponsored by **CTS Network Services,** booths 1230, 1232, 1329, 1331, 1333, 1335. *"Connect With Confidence."*

**Hourly Prize Drawings**
Every attendee receives a daily Drawing Card. Just deposit it in the entry bin and listen to hear your name read over the PA system.

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KOGO Live Broadcast featuring Roger Hedgecock
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KSON The Price Is Right Game
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91X Computer Geek Makeover

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| 1-Day Seminar Passport | $30 | ***Only $25 plus 5 Reservations!*** |
| Sunday Seminar Passport | $25 | ***Only $20 plus 3 Reservations!*** |
| Exhibit Ticket | $8 | ***Only $7—No waiting in line!*** |
| Child Ticket (7–12) | $4 | |

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## The California Computer Expo

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*continued from page 210*

**July 28–August 18 Microsoft Word 97, Part 3.** Fullerton. Cal State Fullerton Extension. Contact: (714)278-2611.

**July 29–30 Hands-On Inter-Adv Photoshop.** Santa Monica. LAMG. Contact: (310) 319-1821, or *www.lamg.com*.

**August**

**August 1 Hands-On Intermediate PageMaker.** Santa Monica. LAMG. Contact: (310) 319-1821, or *www.lamg.com*.

**August 3–5 Internet Telephony.** Los Angeles. UCLA Extension. Contact: (310)825-3344, or *www.unex.ucla.edu/shortcourses*.

**August 8 Oracle & Oracle Financials Class.** Bellflower. Computer Resolutions. Contact: (562)804-0470, or *www.computer-resolutions.com*.

**August 8 Beg Mac.** Santa Monica. LAMG. Contact: (310) 319-1821, or *www.lamg.com*.

**August 8–15 Scientific Visualization Using JAVA 3D–$385.** Irvine. UCI extention. Contact: (949)824-5414, or *www.unex.uci.edu/academic/tech*.

**August 10–12 Internet Information Server.** Irvine. CSULB. Contact: (562)985-8452, or *www.uces.csulb.edu/scitech*..

**August 10–19 Microsoft Powerpoint 97.** Fullerton. Cal State Fullerton Extension. Contact: (714)278-2611.

**August 12 Hands-On Adv. Beginning Mac.** Santa Monica. LAMG. Contact: (310) 319-1821, or *www.lamg.com*.

**August 12 Best Deals on the Internet.** Santa Monica. LAMG. Contact: (310)319-1821, or *www.lamg.com*.

**August 13–14 CyberStudio.** Santa Monica. LAMG. Contact: (310)319-1821, or *www.lamg.com*.

**August 15 Getting Started On the Internet.** Santa Monica. LAMG. Contact: (310) 319-1821, or *www.lamg.com*.

**August 15 Photoshop for Animators.** Santa Monica. LAMG. Contact: (310)319-1821, or *www.lamg.com*.

**August 15 Beyond HTML.** Santa Monica. LAMG. Contact: (310)319-1821, or *www.lamg.com*.

**August 15–September 5 Microsoft Access, Part 3.** Fullerton. Cal State Fullerton Extension. Contact: (714)278-2611.

**August 19 Before You Buy a Mac.** Santa Monica. LAMG. Contact: (310)319-1821, or *www.lamg.com*.

**August 20 Hands-on Intro to AfterEffects.** Santa Monica. LAMG. Contact: (310)319-1821, or *www.lamg.com*.

**August 21–22 Hands-on Intro to Photoshop.** Santa Monica. LAMG. Contact: (310) 319-1821, or *www.lamg.com*.

**August 24–26 SCO Shell Programming.** Irvine. CSULB. Contact: (562)985-8452, or *www.uces.csulb.edu/scitech*.

**August 25–December 1 Fundamentals of UNIX.** Fullerton. Cal State Fullerton Extension. Contact: (714)278-2611.

**August 25–October 20 Object-Oriented Analysis.** Fullerton. Cal State Fullerton Extension. Contact: (714)278-2611.

**August 26–October 14 Fundamentals of After Effects.** Fullerton. Cal State Fullerton Extension. Contact: (714)278-2611.

**August 26–October 28 Fundamentals of C Program-ming Language.** Fullerton. Cal State Fullerton Extension. Contact: (714)278-2611.

**August 26 High Performance Photoshop.** Santa Monica. LAMG. Contact: (310) 319-1821, or *www.lamg.com*.

**August 27–October 29 Fundamentals of C Programming Language.** Fullerton. Cal State Fullerton Extension. Contact: (714)278-2611.

**August 27–October 29 Fundamentals of C++.** Fullerton. Cal State Fullerton Extension. Contact: (714)278-2611.

**August 28 Hands-On Claris Works.** Santa Monica. LAMG. Contact: (310)319-1821, or *www.lamg.com*.

**August 29 Hands-on Intro to FileMaker Pro.** Santa Monica. LAMG. Contact: (310)319-1821, or *www.lamg.com*.

**August 29 Preparing for a Career in New Media and Digital Image Creation.** Los Angeles. UCLA Extension. Contact: (310)825-9064, or *www.unex.ucla.edu*.

**August 29–October 17 Fundamentals of Authoring with Macromedia Director 6.0.** Fullerton. Cal State Fullerton Extension. Contact: (714)278-2611.

**August 29–October 17 Beginning Adobe Photoshop 4.0 for Digital Imaging.** Fullerton. Cal State Fullerton Extension. Contact: (714)278-2611.

**August 29–September 26 Personal Computer Basics.** Fullerton. Cal State Fullerton Extension. Contact: (714)278-2611.

**August 29–September 26 Microsoft Windows 95.** Fullerton. Cal State Fullerton Extension. Contact: (714)278-2611.

**August 29–September 26 Microsoft Excel 97, Part I.** Fullerton. Cal State Fullerton Extension. Contact: (714)278-2611.

**September**

**September 12 Oracle & Oracle Financials Class.** Bellflower. Computer Resolutions. Contact: (562)804-0470, or *www.computer-resolutions.com*.


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**Brain Toys BBS.** (818)988-3550, 557-8697, 707-4476, 700-9877; (213)255-2495; (310) 858-0070; *www.braintoys.com* , or telnet free: *braintoys.com* . MajorMud, 32 lines, TradeWars, DOOM 2, Backgammon, chat. Full Internet access, first month free, all ages. [Exp. #182]

**Coffee Break BBS.** (310)425-5710, 320-5000; (714)670-6500, 572-8800, 537-4300, 262-1200; (626)961-1700, 447-6100, 797-6400, (909) 865-7533. General interest, 20 lines, chat, MajorMud, TradeWars, files, email. Free trial. Ultimate caffeine buzz! Sysop: Coffee. [Exp. #183]

**EOL Online—The End of the Line BBS.** (626)296-1169, (213)666-0166, (818)783-4575. 24 hrs., Great online adult community! Hosted chats, online games, Farwest trivia, MatchMaker, happy hour parties, thousands of downloadable GIFS and shareware, one month free. Call (626)296-1158 for our custom dialup software. Sysop: Boots. [Exp. #183]

**Exo BBS.** (213)490-0556, 330-1609, 531-1608; (310)819-0554, 765-0554, 735-0554, 734-1908, 526-0594, 954-0534; (562)506-0531; (626) 532-0684, 639-0554; (714)869-1501, 676-1501, 782-1502, 591-0554, 930-1601, 481-0028, 485-0028, 653-0309, 849-0574; (818)742-0554, 741-0572; (909)689-4534. *http://bbs.exo.com* ; Telnet: *bbs.exo.com* . 24 hrs., 2400-56,000. Support for Amiga, IBM, Mac. Email, full Internet, online games, messages bases, files area, Fidonet, chatting, and MORE! Free and pay accounts available. [Exp. #182]

**Miller's Party Board.** (213) 569-9191, 727-0251; (310)815-0117, 212-3469; (562)425-7264, 929-4304; (626)577-5880, 852-9474, 961-2458; (714)220-0887, 537-4436; (818)240-8296, 769-2302, 882-0142; Telnet: *mpb.com.* 24 hrs., 28,800. Chat, games including MajorMud, TradeWars 2002, Crosswordz, full Internet Access, forums, modem-to-modem gaming, live games, more. 7-day free trial. Sysop: Jack Stern. [Exp. #182]

**Tiger's BBS.** (213)223-8403; (626)296-9173, 446-0605. 24 hrs., up to 33,600. MMUD, chat areas, files, games, email. Free, but accept donations. Sysop: Tiger. [Exp. #182]

**VGN BBS.** (818)623-9812; (213)258-9719; (310)837-2450. Major Mud, TradeWars, and Tessier Triva. We have 3 relays up so far, and still adding more. Sysop: Martin Geisler . [Exp. #182]

### 310

**Los Angeles Macintosh Group BBS.** (310)451-LAMG. 8-N-1, 24 hrs. FirstClass, 16 lines. 40,000 calls/month. Shareware, forums include DTP, multimedia, WWW, employment exchange, classifieds, more. [Exp. #182]

**The Crystal Beach Cyclone BBS.** (310)323-5626. 24 hrs., 14,400 mode, single line. Amusement parks, Halloween, rollercoasters, magic, Apple II. Fun discussions. Friendly. Free. Sysop: Harry Traver. [Exp. #183]

**Upper Transylvania BBS.** (310)515-6843, 515-7953, 515-7995, 515-1757, 768-3399. 24 hrs., 14,400. Christian, family-oriented, 20 active CD-ROMs updated regularly. Free. Sysop: Ron Hoffman. [Exp. #181]

### 562

**Bushidokai BBS.** (562)698-8719. 8-N-1, 24 hrs., 33,600. ANSI/RIP, subs, files, games, multi-line/networks, free access, WWIV v4.24a. Log on as "guest." Sysop: The Animal. [Exp. #182]

**Telery.** (562)494-0909, Telnet: *telery.com, www.telery.com* . FREE access, chat, online casino, games, LORD, Trade Wars 2002, Trivia, free Internet email/homepage. Sysops: Cobra & LUS. [Exp. #181]

### 714

**Orange County Underground.** (714)992-1196. 14,400+. Running NovaLink Pro. *NEW BBS*, So. Cal interests; Chat with locals, freebies, family fun, MIDI files, MAC & PC files, gray market. Specializing in So. Cal. Dwnld. custom Mac interface or PC/ANSI. Supports all platforms. FREE! Donations welcome. Sysop: Doug. [Exp. #183]

**The Abyss BBS.** (714)848-9920. 8-N-1, 24 hrs., 30033,600. WWIVnet, FidoNet echos, message bases, free file transfer section, online games and more. No fee! Sysop: Byte. [Exp. #181]

**The VIBA Connection.** (714)454-7751. 8-N-1, 24 hrs., Up to 33,600. Free access. Files, games, forums, CD-ROM filebase. Since 2/94. Sysop: Robert Coop. [Exp. #182]

### 818

**Earthquake City BBS.** (818) 368-3337; *http://members.tripod.com/~eqcitybbs/Index.htm* . 8-N-1, 24 hrs., 33,600. Free. All ages. Files, messages, games. Fee for Internet email, 1GB online. Sysop: Steven Libis. [Exp. #182]

**Ethereality BBS.** (818)884-6700. 24 hrs., 33.6. General interest, all ages, easy-to-use interface, free, live chat, online games, file libraries, message discussions, user meets, and more. *http://ebbs.dynip.com* ; telnet: *//ebbs.dynip.com* . Sysop: Gamma Ray. [Exp. #183]

### 909

**The Parallel.** (909)460-0433 8-N-1, 33,600. Free. Telegard 3.09, Many message areas, instant download access and onliners. Sysop: Matt Munson. [Exp. #182]

# User Groups

### Atari

**ATESIG—Atari 8-Bit SIG.** 145 Surf Pl., Seal Beach. Cooperative user group for model railroad applications. Contact: (562)430-5433, or *d.mcalliste2@genie.com* . [Exp:#186]

### Commodore

**CHLB—Commodore Helpers Of Long Beach.** Meetings: 2nd Sat., 9:00 am., Community Methodist Church, 6380 Orange Ave., Long Beach. Newsletter, large library, monthly disks. Contact: Dorothy, (310)323-9265. [Exp:#185]

**Commodore—Apple Helpers of Long Beach (CHLB).** Meetings: 2nd Sat., 9:00 am, Community Presbyterian Church, Fellowship Hall, 6380 Orange Ave., North Long Beach. Newsletter, question/answer period, demos, library, and more for all 8-bit, Commodore, and Apple II users. Contact: Herb (562)429-8998, or *Camaron@earthcorp.com* . [Exp:#185]

### IBM And Compatibles

**Greater South Bay PC Users Group.** Meetings: 2nd Thurs., 7:30 pm, Torrance Recreation Center, behind Torrance main library. Contact: (310)373-3989, *rsh532@aol.com* , or *www.lafn.org/community/gsbug* . [Exp:#183]

**Long Beach IBM Computer Users Group.** Meetings: 3rd Wed., 7:00 pm, Masonic Temple, 5155 E. Pacific Coast Hwy., Long Beach. We welcome the novice and the experienced. BBS, public domain library, newsletter, SIGs. Contact: Jim Wells, (562)439-7114. [Exp:#186]

**Los Angeles Computer Society.** Meetings: 2nd Tues., 6:30 pm, Robert Frost Auditorium, Culver City High School, 4401 Elenda St., Culver City. Door prizes, vendor presentations, product reviews, special interest groups, email. For date changes and other info., call (310)471-2726, or *www.lacspc.org* . [Exp:#186]

**NOCCC (North Orange County Computer Club).** Meetings: 1st Sun, 9:00 am, Chapman University, 333 N. Glassell Ave., Orange. Speakers on hardware, software, Internet, 25 SIGs, demonstrations, newsletter, helpline, raffles, consignment table, member benefits. Call: (714)998-8080, or *www.noccc.org* . [Exp:#183]

**Orange County IBM PC Users Group.** Meetings: 2nd Tues., 6:30 pm. Speakers, software, newsletter, BBS. Open to public, all welcome. Contact: (714) 990-0580, or *orcopug@prodigy.com* . [Exp:#181]

**Pasadena IBM Users Group.** Meetings: 1st Wed., 7:009:30 pm, 2184 N. Lake Ave., Altadena. Speakers on hardware/software, demonstrations, SIGs, library, newsletter, and Web site. Call: Steve Bass, (626)791-1300, or *www.pibmug.org* . [Exp:#181]

**Saddleback Valley PC Users Group.** Meetings: 3rd Sat., 9:00 am, Saddleback College, 28000 Marguerite Pkwy., Rm. 205, Business and General Studies Bldg., Mission Viejo. Newsletter, question/answer period, demos, shareware software library. Beginners or experienced users are welcome. Contact: (714) 582-4623, or *JeromeMan@aol.com* . [Exp:#181]

# User Groups

**San Gabriel Valley Technology Users Group.** Meetings: 2nd Fri., 7:00 pm, Arcadia Park Senior Citizens Center, 405 S. Santa Anita Ave., Arcadia. Support for Tandy and IBM compatibles, newsletter, RAM session. Contact: Jack Nock, (626)578-0411, or *jack.nock@worldnet.att.net* . [Exp:#185]

**Santa Clarita Valley PC-Group.** Meetings: 2nd Wed., 7:00 pm, Valencia Town Center Community Room. Dedicated to PC literacy. Come join us. Contact: (805)298-1680, or *www. scvpcg.com* . [Exp:#183]

**Simi Valley Computer User Group (SVCUG).** Meetings: 2nd Thurs. and 4th Wed., 7:30 pm, Simi Valley Public Library. Demos, Q&A, hands-on troubleshooting, for beginners and advanced users. Member help list and current meetings on *www.svcug.org* . Contact: Barbara Cott, (805)581-2495, or *bobbie@wgn.net* . [Exp:#185]

**Southern California Computer Society.** Meetings: 4th Tues., 7:00 pm, Farmers & Merchants Bank, Rossmoor Mall, 12535 Seal Beach Blvd., Los Alamitos. For all interested in IBM and compatible computers; newsletter. $20/yr. Contact: Don Schmidt, (562)424-4634. [Exp:#184]

**Thousand Oaks Personal Computer Club (TOPCC).** Meetings: 4th Thurs., 6:00 pm, Goebel Senior Center, 1385 E. Janss Rd., Thousand Oaks. Starts with Q & A session targeted at novice to expert levels of computer knowledge. Contact: Harry, (805)495-8325, or Eli, (805)496-8053. [Exp:#185]

**Tug-Net.** Meetings: Every Tues., 7:00 pm, Granada Pavilion, 11128 Balboa Blvd. Granada Hills. Plenty of parking. Vendor presentations, speakers on hardware/software; help for new users, special interest groups, newsletter, more. Contact: (818)249-1629, 884-9441, or *www.tugnet.org* . [Exp:#185]

**Valley Computer Club (VCC).** Meetings: 2nd Tues., 7:00 pm, Burbank YMCA, 321 E. Magnolia Blvd., Burbank (wheelchair access). Vendor presentations, SIGs, newsletter. All welcome. Contact: Grayce Hruda, (818)842-3707, *burvally@pacificnet.net* , or *www.pacificnet.net/~burvally* . [Exp:#185]

## Internet

**LA Webspinners.** Meetings: 1st Sat., 10:00 am, 10800 West Pico Blvd, Corner of Overland Avenue at the Westside Pavillon Mall, Community Room, 3rd Fl., Los Angeles. Contact: *www.la.iics.org* . [Exp:#182]

**Visual Interdev User Group.** Meetings: 3rd Mon., 7:00 pm, San Gabrial Valley Web site developing. Contact: (909)625-6202, or *cherokeeguy@juno.com* . [Exp:#182]

## Macintosh

**Champions Of The Mac Proletariat (CHOMP).** Meetings: 4th Thurs., 7:00 pm. Bauer Forum, Claremont McKenna College, Claremont. Q&A; raffle of useful software; vendor presentations; exchange views, opinions, expertise. Contact: Al Seltzer, (909)626-7784, or *AlSeltzer@aol.com* ; Mitch Cohen, (909)605-1000, ext. 11, or *www.chompmug.org* . [Exp:#184]

**Los Angeles Macintosh Group (LAMG).** Meetings: 4th Thurs., 7:30 pm, Call for location. Vendor presentations, raffle, 25+ SIGs, seminars, hands-on classes, BBS, monthly magazine. Guests welcome. Contact: (310)319-1821, or *www.lamg.org* . [Exp:#182]

**South Bay Apple Mac User Group.** Meetings: Last Wed., 7:30 pm, Knob Hill Community Center, 320 Knob Hill, Redondo Beach. Newsletter, PD library, demos, and software raffles. Contact: C.W. Mitchell, (310) 644-3315. [Exp:#183]

**West Orange County Mac User Group (WOCMUG).** Meetings: Last Tues., 7:00 pm, The "Friendliest Mac Club Around" features the latest news about Mac, Q&A, vendor presentations, demos, raffles, and a newsletter. Call: Lynn, (714)892-8910, or Harriet (562)431-9623. [Exp:#185]

**Whittier Area Macintosh User Group**. Meetings: 2nd Sat., 9:30 am, CFF Church, 14322 Telegraph Rd., Whittier. Beginner to experienced. Q&A, demos, raffle, hot disk, SIGs, newsletter. Contact: (562)906-0059, or *www.geocities.com/SiliconValley/Pines/6042/* . [Exp:#181]

## Miscellaneous

**Glendora Seniors Computer Club.** Meetings: 2nd and 4th Wed., 1:00 pm, Lefetra Senior Center, 133 E. Foothill Blvd., Glendora, CA 91741. IBM, presentations, SIGS, newsletter, library, Q&A period, all skill levels. Troubleshooting help. Contact: (626)914-0560, or *www.starquest.net/gscc* . [Exp:#184]

**Lightwave–Toaster/Flyer Group.** Meetings: 2nd Sat., 12:00 noon Los Angeles. The Pickwick Banquet Ctr., 1001 Riverside Dr., Burbank. Support for users of NewTek products, beginner--advanced. Demos, tutorials, help. Contact: Glenn, (818)240-0399, or email Dan at *janmoore@empirenet.com* . [Exp:#186]

**OCCUG (Orange Coast Corel Users Group).** Meetings: 2nd Sat., 9:00 am, Huntington Beach Adult School, 1666 Tunstall Ln., Huntington Beach. Demos by a certified COREL instructor, newsletter, giveaways, guest experts, all welcome. Contact: Wayne Kaplan, (714)968-2509, or *www.wjkaplan.com/oc-cug* . [Exp:#181]

**Orange County Linux Users Group (OCLUG).** See Web site for location. Meetings are early in the month at a place, time, and location given on our Web site. Supports Linux users in solving their hardware/software/networking problems. Contact: *Richard_Earhart@compuserve.com* , or *www.oclug.org* . [Exp:#183]

**Performance Animation Society.** Dedicated to the emerging field of 3D Performance Animation, virtual theatre, digital puppeteering and motion capture, and 3D character animation. Contact: Greg Panos, (562)434-4436, or *www.PAsociety.org* . [Exp:#184]

**SBACE (South Bay All Computer Enthusiasts).** Meetings: 4th Wed., 7:30 pm, Del Amo Savings Bank, 2177 Pacific Coast Hwy., Lomita. Provides computer-related assistance and welcomes experienced computer users' contribution. Contact: George (310) 679-8688. [Exp:#186]

**The San Gabriel Valley Linux Users Group.** Meetings: 2nd Thurs., Pasadena. Also welcoming FreeBSD. See our Web site for details at *http://zot.iipo.gtegsc.com/Linux* , or email *ak252@lafn.org* . Contact: (626) 398-0634. [Exp:#185]

## Networking

**Los Angeles NT Users Group—LANTUG.** Meetings: 2nd Weds., To enhance users' knowledge of the operating system, its features and benefits. For more information, go to *www.lantug.org* . Contact: Bill Spaulding, *www.lantug.org* . [Exp:#183]

**OCNET—Orange County NetWare Users Group.** Meetings: 2nd Tues. 6:30 pm, Novell, 18101 Von Karmon, 5th Fl., Irvine. Specializes in Novell NetWare solutions. Contact: (714)250-4677 ext. 14, or *www.stcweb.com/ocnet/.* [Exp:#182]

**Orange County Network Gaming Group.** Play multiplayer games on a LAN. Date/time/location to be announced. Contact: Neil, (714)840-9011, *outlaw@linkline.com* . [Exp:#181]

## Windows

**Power Graphics User Network (PGUN).** Meetings: Last Tues., 7:30 pm, Glendale. Windows-based graphics and publishing applications (CorelDRAW, Ventura Publisher, Picture Publisher, Kai's Power-Tools) and techniques for image editing, Web design, 3D, multimedia, etc. Contact: Randy Tobin, (818)955-5830, or *www.thetadata.com* . [Exp:#181]

**WINNERS—WINdows usERS.** Meetings: 2nd Sat., 9:00 am, Orange Coast College, Science Bldg., Rm. #149, 2701 Fairview Rd., Costa Mesa. All Windows covered, industry speakers, tips and tricks. Software library, newsletter, Internet SIG. Everyone welcome. Contact: (714)644-5782, or *http://members.aol.com/ocwinners* . [Exp:#183]

# Associations

**Lightwave–LA.** Lightwave 3D artists looking for work? Register with Lightwave-LA, a FREE online database dedicated to connecting employers with graphic artists experienced with NewTek's Lightwave 3D modeling and animation program. Visit the site at *http://home.earthlink.net/~ltfgroup/Lightwave-LA* . [Exp:#186]

**MacWomen Special Interest Group.** Meetings: 3rd Sun., 2:00 pm, Los Angeles Macintosh Goup Resource Center, 1640 5th St., Ste. 220, Santa Monica. We explore women's topics on the Web, learn new skills and help each other solve our own computing problems. All skill levels welcome. All platforms welcome. Free. Contact: (310)641-1303, or *Eileen_Kane@LAMG.com* . [Exp:#183]

**UUASC—The UNIX Users Association of Southern California.** Meetings: 2nd Mon., 7:00 pm, Irvine. For all persons using UNIX either personally or professionally, or interested in learning more about UNIX. We recognize all varieties of UNIX, including (without prejudice) SCO, Linux, SVr4, Solaris, AIX, HP/UX, and BSD. *www.UUASC.org* . [Exp:#186]

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porations already use their WANs (Wide Area Networks) for communications via TCP/IP, using the new Voice Over Internet Protocol (VOIP). The audio quality has been likened to that of cell phones, which is good enough for this purpose. And the savings in here can be significant.

We also have the H.323 standard, which defines a common set of compression/decompression algorithms. Pushed by such biggies as Intel and Microsoft, H.323 is gradually being accepted by IP Telephony vendors. Its champions say it will do for Internet telephony what SMTP (Simple Mail Transfer Protocol) has done for email.

Beyond the desktop, large-scale projects, mergers, and cooperative efforts announced even as this article was being researched and written indicate how seriously some big movers and shakers in the broad telecom field regard Internet telephony.

**Item:** Sprint announces its $2 billion Integrated On-Demand Network (ION), which will use the Internet's packet-switching technology (as opposed to the traditional circuit-switched conventional telco networks) for voice, fax, and Internet connections. Sprint claims ION could reduce long-distance call costs by as much as 70% and allow Internet access speeds 100 times faster than 56.6 modems.

**Item:** Qwest Communications International of Denver and Level 3 Communications of Omaha remind us that they are already deploying such networks, only on a more limited scale.

**Item:** Ericsson, Lucent Technologies, and Siemens Business Communications rolled out VOIP products and strategies at NetWorld+Interop.

**Item:** *Computer Reseller News*, authoritative computer retail trade paper, reported that Internet telephony appears poised to become a breakthrough technology, and that some pioneering resellers are positioning themselves to get in on the bottom floor.

**Item:** Lucent Technologies and VocalTec Communications announced plans at SuperComm to develop full interoperability between their IP telephony platforms. In addition, ITXC announced it will be the first carrier to operate an interoperable IP telephony network using the two companies' products.

On the debit side is the full-court press by the giant telcos to stifle development of Internet telephony, considering the big political guns they can bring to the task. They claim that if Net phone calls were subject to the same fees as theirs are, there would be little or no savings.

That remains to be seen. It might be true for large companies with enough telephony volume to get rates of a few cents per minute from the telcos, but probably not for the SOHO and medium business market. ◆

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## Resources:

**VocalTec Internet**
Free download,
*www.vocaltec.com*

**IDT Net2Phone**
Free download,
*www.net2phone.com*

**Microsoft NetMeeting**
Microsoft Corp.
Free download,
*www.microsoft.com/*

**Internet PhoneJACK, $199**
Quicknet Technologies, Inc.
*www.quicknet.com*

**Aplio/Phone, $199**
Aplio, Inc.
*www.aplio.com*

**InfoTalk, $299.95**
InnoMedia, Inc.
*www.innomedia.com*

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text that you want to appear in the index, and then hit SHIFT-ALT-X. You hardly notice the dialog box that appears when you hit this key combination, because your entire view of the text changes.

You are shifted to a view that displays all the unprinted characters—spaces (as dots), carriage returns (as paragraph marks, a kind of reversed P) and all sorts of other debris. You are put into this view because you need to see the also-unprinted index entries as they appear. Well and good, I say, but there is no easy and obvious way to get back to the normal view.

The dialog box invites you to choose the index entry for the marked text, and any subentry that you may want to use. At least the dialog box stays open so you can mark many index entries at once, and it does move what you have selected into the "proposed entry" slot for you. But what I would like from Word is something that would automatically do all this in one keystroke.

If you're comfortable with macros, or if you read last month's column and are learning about them, you can reduce a lot of the grief by turning the whole process into a macro. Record a macro that copies the selected text, opens the indexing dialog box, pastes the selected text in, chooses to index every occurrence of it, and closes the dialog box. Then assign it to a convenient key combination, such as ALT-Z, and you can operate the macro with your left hand while selecting text with the mouse in your right hand. If you're left-handed, use "ALT-/" or something convenient on the right hand side of the keyboard.

When you are done marking text entries, go to the end of your document and select from the Insert menu the Index and Tables choice. Follow the directions to have a rather elegant index created for you.

When you're tired of looking at all the non-printing characters, go to the Tools menu, select Options and then the tab called View. There you will find that the program checked the box labeled "All" in the non-printing-characters section. Uncheck it, and your view will return to normal.

Why do we have to go through all of these steps? Well, I told you it was klutzy. But even this clumsy process is infinitely simpler than building an index by hand.

## Investing In Some Learning

The bottom line here is that buying a good book and spending a few minutes with it can double the value of software you already have. You will be able to do things yourself that you thought you would have to hire someone else to do. It is well worth the time and the small cost. ◆

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## Resources:

***Visual Quickstart Guide For Word For Windows,* $15.95**
Peachpit Press
(510)548-4393
*www.peachpit.com*

***Microsoft Word 97 At A Glance,* $14.99**
By Jerry Joyce and Marianne Moon.
***Quick Course In Microsoft Word 97,* $14.99**
By Joyce Cox and Christina Dudley
***Step By Step Microsoft Word 97,* $29.95**
By Marie L. Swanson et al. $29.95
Microsoft Press
1-800-MSPRESS (677-7377)
*http://mspress.microsoft.com/*



*continued from page 122*

## Comments

MemBench measures the maximum bandwidth of which the hardware is capable, which is why it shows increases close to CPU and FSB specifications. But the user won't see such increases.

First, Krech points out that compilers do not fully exploit the bandwidth. Second, the pipe metaphor kicks in at the system level too: the processor subsystem is by far the fastest of all and, therefore, except for processor intensive applications (games, high-end graphics with long calculations, video players, compilers), system performance will be determined by the other, much slower subsystems.

***For 2D business applications, a fast hard drive and a good 21" monitor that protects your health should have priority over the fastest CPU.***

As we shall see, relative to the cache and memory throughput in Figure 1, the PCI bus bandwidth is 133MB/sec, of which only about 100MB/sec is reached in practice; the ultrawide SCSI bus offers 40MB/sec and hard disks hover around 10–15MB/sec at best.

The 50% faster FSB, by itself, yields practically no performance gains for business applications on Slot 1 systems. As already explained in a previous article, the L2 cache is integrated into the CPU and runs at half the CPU speed and, therefore, is unaffected by the memory bus speed increase.

At 100MHz, a PII350 improves performance by 6–13% relative to a PII300, but whether it, or the more expensive 400MHz are worth the expense is a subjective decision (keeping in mind that your mileage will vary with your specific applications and how you use them!). Currently, the lowest mail order prices are about $300 for the PII300 and $550 and $800 for the PII350 and PII400 respectively; the other components are priced in Listing 1. For 2D business applications, a fast hard drive and a good 21" monitor that protects your health should have priority over the fastest CPU.

If you already have a PII233–333, a system board based on a chipset older than LX and without an AGP slot and EDO RAM, you can upgrade to a BX board and, optionally, PC100 SDRAM and take the limited risk of running the CPU at 100MHz (or even achieve 350MHz+ performance by overclocking the CPU itself; more on this in a future article).

If you have a fast regular Pentium, Cyrix or K6, you may want to consider the Super7 option. Because the L2 cache is on the system board and tied to the bus speed, it takes full advantage of the 50% increase in it. In fact, most of the Super7 performance gains come from the bus effect on the L2 cache (which can go up to 2MB vs. the 512KB of the PII). Even though Super7 systems may not outperform their Slot 1 equivalents, they can approach their performance at a lower cost (and can be overclocked too). But the technology needs some maturing. Stay tuned.

(I would like to thank Intelligent Firmware's Michael Krech, Abit's Dennis Yu, ATP's Raymond Liao and Don Dilley and Kingston's Heather Jardim for their cooperation and help) ◆

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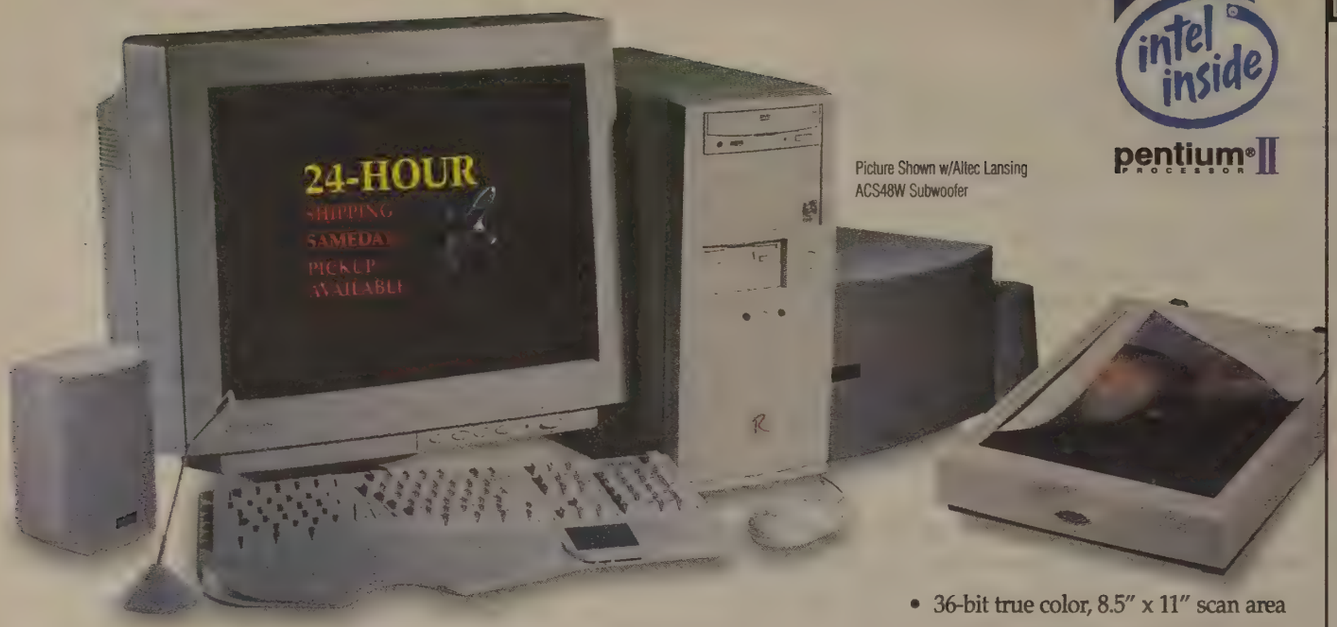


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*continued from page 110*

Servlets offer several crucial advantages over the CGI model. Java servlets are, in general, faster that CGI programs. Servlets are also platform independent: a servlet written on one platform can typically be run on any platform that supports Java.

Web servers written in Java (such as Tengah from WebLogic, Jigsaw from W3C, or Sun's JavaWebServer) have built-in facilities for executing servlets. For non-Java Web servers, packages like J-Run provide an environment in which servlets can be executed.

The source code for ServletHello is as follows:

```
// Hello 3: SerlvetHello
import java.io.*;
import javax.servlet.*;
public class ServletHello extends
GenericServlet {
   public void service (ServletRequest req,
ServletResponse res)
   throws ServletException, IOException {
   res.setContentType("text/html");
   ServletOutputStream out =
res.getOutputStream();
   out.println ( "<TITLE>Test
Servlet</TITLE>" );
   out.println ( "<H3>Hello, World!</h3>" );
   ]
   public String getServletInfo() {
         return "This is ServletHello\n";
   }
}
```

As with "AppletHello", "ServletHello" imports some classes outside the core Java system. The basic servlet classes are not included in the JDK. They are part of the Java Servlet Developer's Kit which must be downloaded from JavaSoft and installed separately from the JDK. (Don't forget to update the CLASSPATH environment variable to include the classes from the JSDK as well as the JDK classes.)

The "ServletHello" class extends GenericServlet which is a class included in the JSDK. ServletHello has two methods, both of which are required: "service()" and "getServletInfo()".

"getServletInfo()" simply returns identifying information about the servlet.

The servlet's real work is done in the "service()" method. This method expects to be called with access to two objects: the HTTP request that invoked the servlet and the HTTP response that the Web server will pass back to the browser that launched the request.

The HTTP request object contains information about the browser that invoked the servlet and any input data (from HTML forms, for example) gathered from the page that made the request. The HTTP response object is a vehicle for returning information from the servlet to the user.

The "service()" method for "ServletHello" first sets the content type for the HTTP response, then gets a servlet output stream. The servlet output stream object has a "println" method that looks very much like the "println" that appeared in Hello 1. This "println" method, however, writes messages back to the browser. Note that HTML tags are hard-coded in the messages that are returned.

ServletHello is compiled with the command:

**javac ServletHello.java**

As with the other compilations, a ".class" file ("ServletHello.class") is produced.

Executing "ServletHello" is a little more involved than executing either applets or standalone programs. You'll need with a browser and either a Java Web server or the "servletrunner" utility that is included with the JSDK.

*Servlets offer several crucial advantages over the CGI model. Java servlets are, in general, faster than CGI programs. Servlets are also platform-independent.*

"Servletrunner" acts like a small Web server for testing servlets. It needs to know what network port to use for incoming requests and where to find any servlets and HTML files it might need. The following command starts the servlet runner expecting "servlet" class files in c:\temp and listening on port 8001 for HTTP requests:

**c:\jsdk2.0\bin\servletrunner -p 8001 -d c:\temp**

Put ServletHello.class in c:\temp and then start a browser. Because the Java code will execute on the server side, the browser need not be Java-enabled. For "servletrunner" configured as above, the URL to invoke ServletHello is:

***http://localhost:8001/servlet/ServletHello***

When the browser is instructed to retrieve this URL, the server launches ServletHello which in turn sends back a stream of HTML with the "Hello, World!" message.

## Hello 3.5

A servlet need not do all the work itself. This is a crucial difference between servlets and applets. An applet must contain everything it requires other than the standard Java classes. Servlets, on the other hand, have access to all the Java classes in the Web server's Java environment, so it's possible to use the servlet simply as an interface to call other Java classes that are part of an application.

In Hello 1.5, a Hello class was created with a method that returned the "Hello, World!" message. The source code below shows how "ServletHello" could be rewritten to call that method:

```
// Hello 3.5: modified SerlvetHello
import java.io.*;
import java.util.Date;
import javax.servlet.*;
import Hello;
public class ServletHello extends
GenericServlet {
   public void service (ServletRequest req,
ServletResponse res)
         throws ServletException,
IOException {
         res.setContentType("text/html");
         ServletOutputStream out =
res.getOutputStream();

         out.println ( "<TITLE>Test
Servlet</TITLE>" );
         out.println ( Hello.hello() );
   }
   public String getServletInfo() {

   return "This is the HelloServlet\n";
   }
}
```

The only changes are that ServletHello explicitly imports the Hello class and the Hello.hello() method is used to provide the text for out.println. Hello.hello() returns text with no HTML tags.

Executing this modified version of "ServletHello" now requires that the Java class loader be able to find "Hello.class". The simplest procedure is to put "Hello.class" in the same directory as "ServletHello.class". Hello.class could also be put in any directory in the server's CLASSPATH.

Of course, applets, servlets, and old-fashioned programs all fill different needs. Choosing how to implement any given application, like choosing what to say at a cocktail party, is a matter that may require some discernment. ◆

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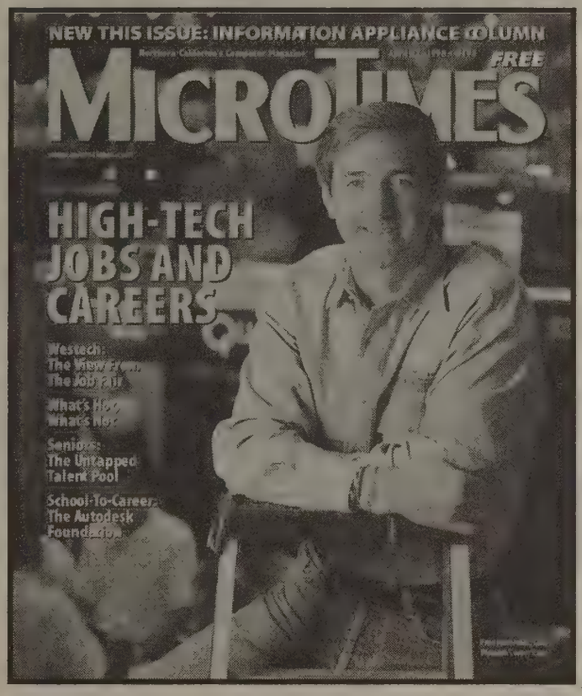


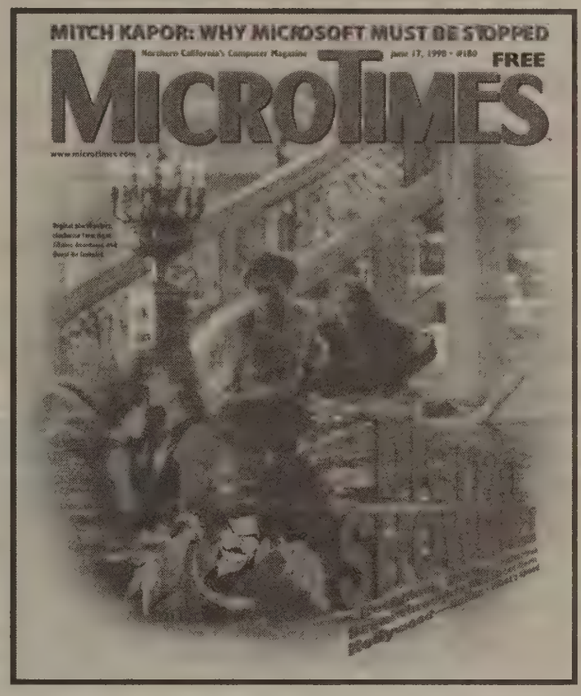


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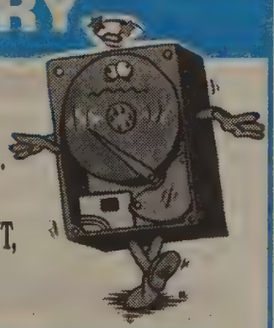

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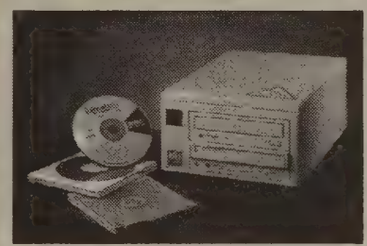

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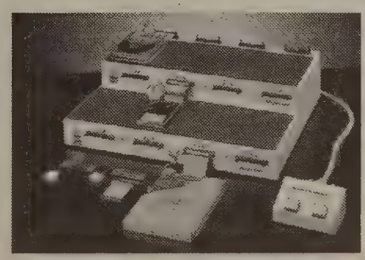

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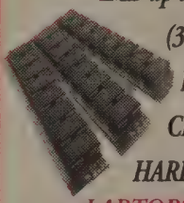

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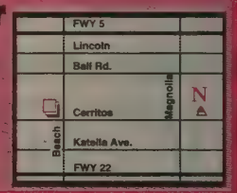


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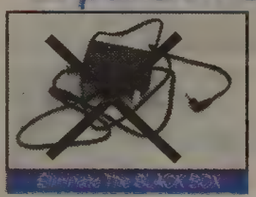

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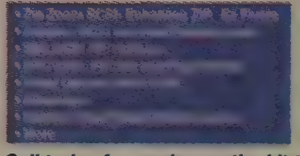

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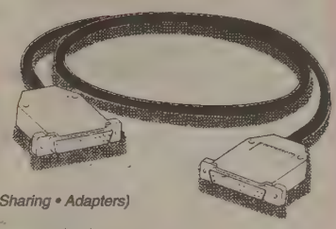

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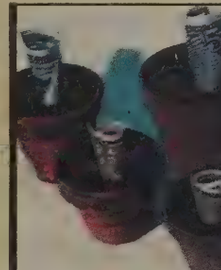

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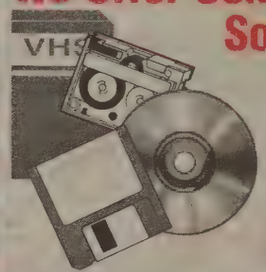

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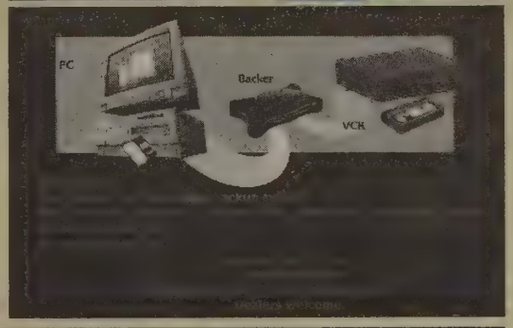


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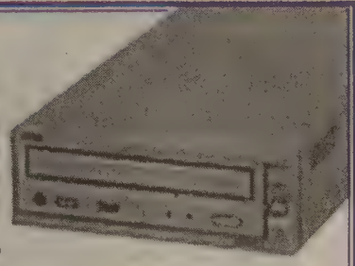

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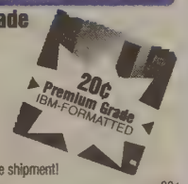


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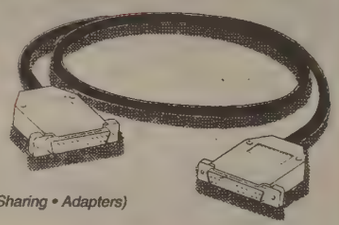
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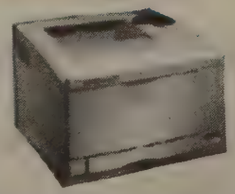

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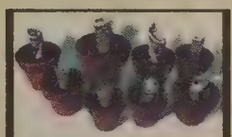

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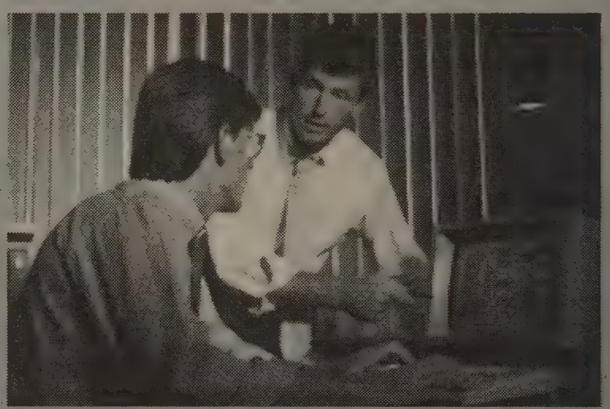

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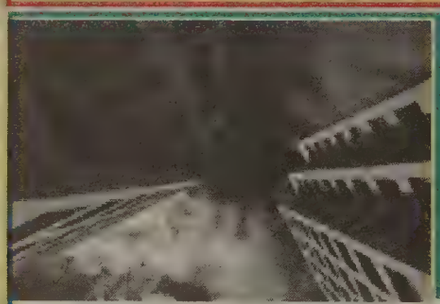

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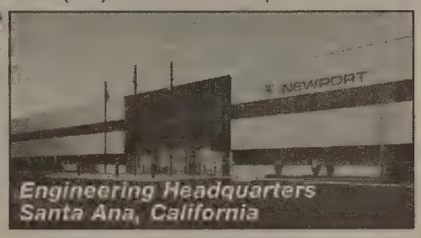

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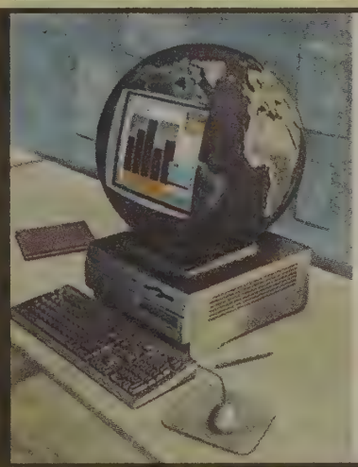

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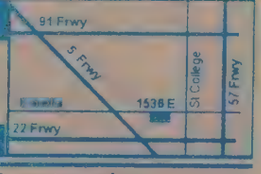


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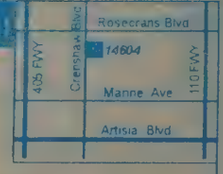


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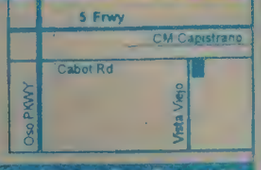


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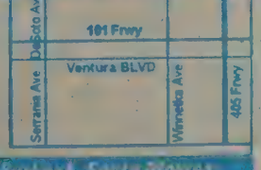


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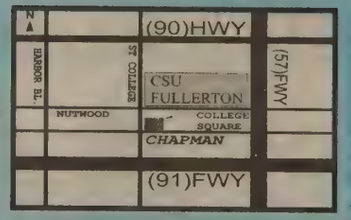

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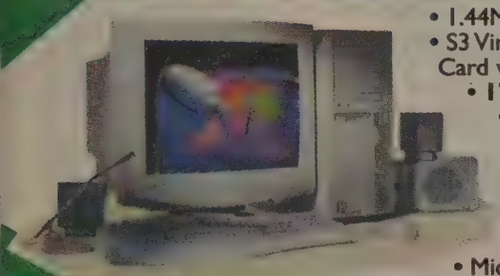

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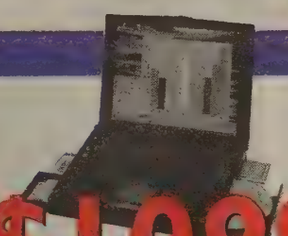

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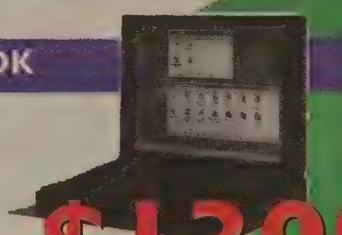

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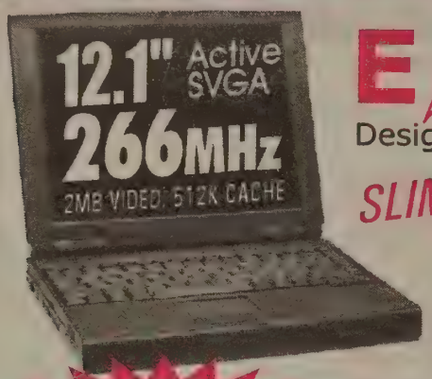


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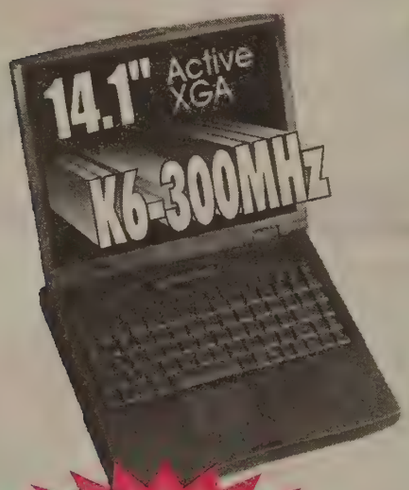


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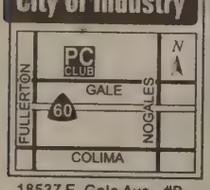


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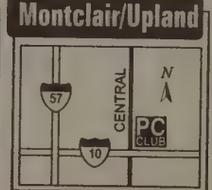


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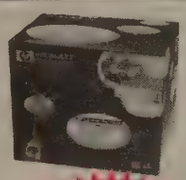

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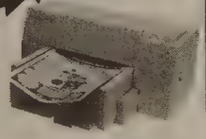

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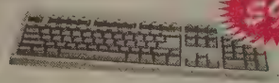

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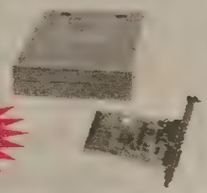

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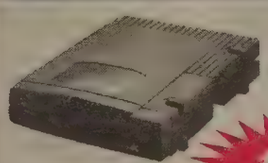

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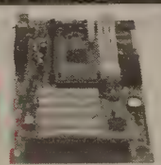

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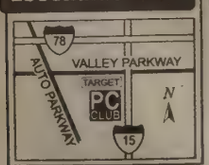


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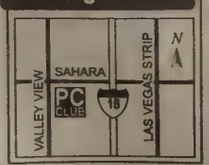


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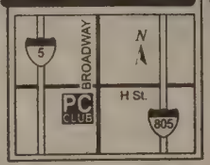


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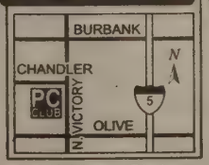


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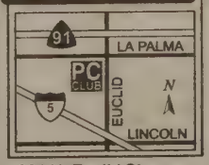


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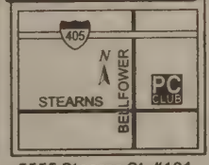


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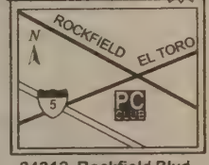


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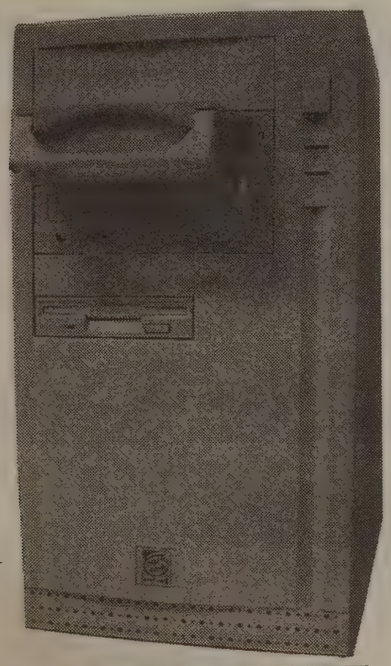

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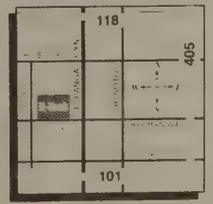


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# Nothing Is Ever Serious Until The Jokes Appear

## *Or, The End Of The World As We Know It*

*By John C. Dvorak*

As we approach the Year 2000 we can expect more and more attention to be paid to the problems that may occur. So in my joke in-box came this cute ditty from the Internet.

### The Top 10 Unforeseen Consequences of the "Millennium Bug"

**10.** "99 Bottles of Beer on the Wall" song gets stuck in infinite loop.

**9.** At the stroke of midnight, Windows 99 turns back into DOS 1.0, the Pentium V turns back into an 8088, and the Handsome User is left holding a beautiful glass mouse.

**8.** Internet Movie Database now lists "1901: A Space Odyssey."

**7.** Bob Dole's age erroneously listed with only 2 digits.

**6.** Sales of Coca Cola jump drastically after original cocaine-laden formula becomes legal again.

**5.** Software engineers point out that since computers think it's almost 1900, we technically have to "party like it's 1899," which, frankly, doesn't seem like much fun.

**4.** Microsoft declares the year 1900 to be the new standard of the "Gatesian" calendar.

**3.** Jesus shows up late for His second coming, blames it on COBOL programmers.

**2.** Using a computerized adoption service, Michael Jackson mistakenly takes home some octogenarians.

**and the Number 1 Unforeseen Consequence of the "Millennium Bug"...**

**1.** Unexpected demand for COBOL programmers results in severe understaffing of McDonald's restaurants.

Personally I've never liked the reverse top ten lists, since they're a David Letterman invention and he's hard to top with this kind of thing. But over the past few years the Net has seen several such lists that reflect computer users' anguish—and are also funny. Three Top 10 lists I've collected recently that prove this point.

### The Top Ten Ways Things Would Be Different If Microsoft Built Cars

**10.** A Particular model year of car wouldn't be available until *after* that year, instead of before.

**9.** Every time they repainted the lines on the road, you'd have to buy a new car.

**8.** Occasionally your car would just die for no reason, and you'd have to restart it. For some strange reason, you would just accept this.

**7.** You could only have one person at a time in your car, unless you bought a car '95 or a car NT, but then you would have to buy more seats.

**6.** You would be constantly pressured to upgrade your car. Wait a second, it's that way *now*!

**5.** Sun Microsystems would make a car that was solar powered, twice as reliable, five times as fast—but only ran on 5% of the roads.

**4.** The oil, alternator, gas, and engine warning lights would be replaced with a single "General Car Fault" warning light.

**3.** People would get excited about the new features in Microsoft cars, forgetting completely that they had been available in other brands for years.

**2.** We'd all have to switch to Microsoft Gas™.

**1.** Ford, General Motors, and Chrysler would all be complaining because Microsoft was putting radios in all its models.

> If Microsoft made cars, Ford, General Motors, and Chrysler would all be complaining because Microsoft was putting radios in all its models.

### The Top Ten Reasons Computers Must Be Male

**10.** They have a lot of data but are still clueless.

**9.** A better model is always just around the corner.

**8.** They look nice and shiny until you bring them home.

**7.** It is always necessary to have a backup.

**6.** They'll do whatever you say if you push the right buttons.

**5.** The best part of having either one is the games you can play.

**4.** In order to get their attention, you have to turn them on.

**3.** The lights are on but nobody's home.

**2.** Big power surges knock them out for the night.

**1.** Size does matter!

### The Top Ten Reasons Computers Must Be Female

**10.** Picky, picky, picky.

**9.** They hear what you say, but not what you mean.

**8.** Beauty is only shell deep.

**7.** When you ask what's wrong, they say "nothing."

**6.** Can produce incorrect results with alarming speed.

**5.** Always turning simple statements into big productions.

**4.** Smalltalk is important.

**3.** You do the same thing for years, and suddenly it's wrong.

**2.** They make you take the garbage out.

**1.** Miss a period and they go wild!!! ◆

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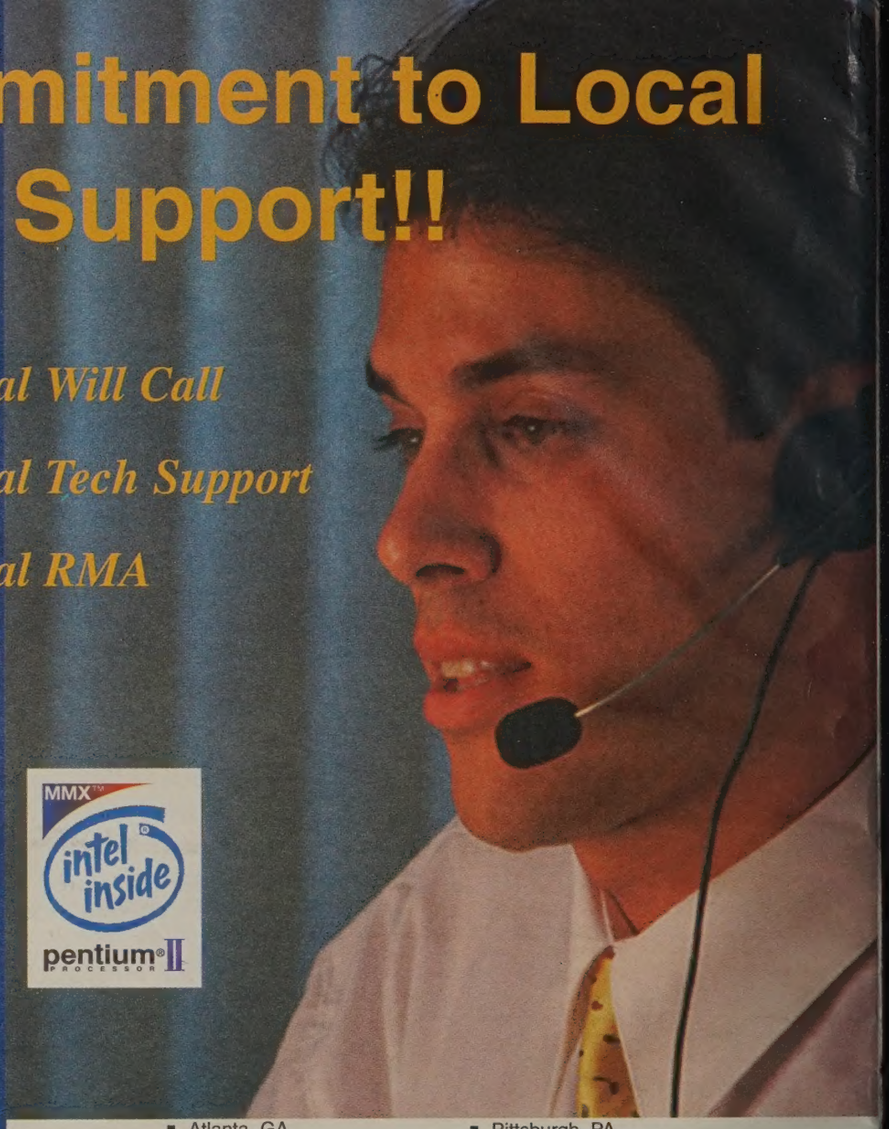

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